

A2-ADJ-LED

2" Architectural New Construction
Adjustable LED Downlight

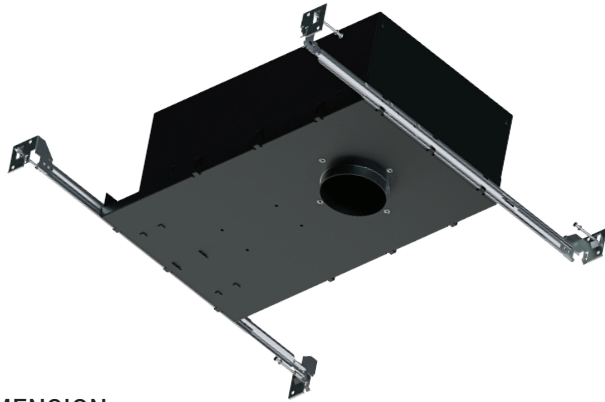
up to 17 Watts / up to 1000 Lumens

Catalog Number:

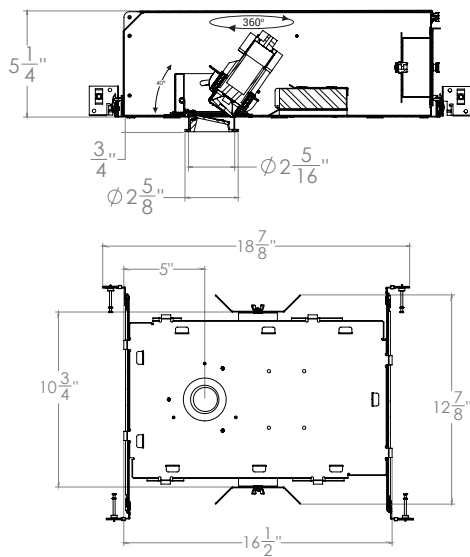
Project Name:

Note:

Type:



DIMENSION



OPTICS



SP (15°)

ND (20°)

MD (30°)

WD (40°)

WW



DESCRIPTION

The A2-ADJ-LED architectural downlight provides unparalleled versatility in a small 2" aperture, delivering a powerful and precise beam of light, with uniform, glare-free illumination.

TECHNOLOGY

Designed with superior LED technology, it offers a multitude of beam distributions, a CRI of 90+, up to 1000 lumens, 1% dimming, and an option for warm dim technology. Field changeable optics, and is fully adjustable to any beam angle, up to 40 degrees, with a full 360-degree horizontal rotation.

HOUSING

The downlight mounting frame is a fabricated assembly constructed of 18-gauge steel, with C-channel mounting brackets, included. The versatility of the mounting brackets allow for an adjustability of up to 24" horizontally, and 1.5" vertically, locking into place. With the added die-formed construction of the mounting frame, it provides maximum heat dissipation and rust protection. Also has WallWash Option.

TRIMS

Offered with interchangeable round and square trims, multiple finish options, it provides the Elite source in flexibility.

THERMAL MANAGEMENT SYSTEM

Passive cooling Diecast Aluminum Heat Sink, LED light engine and driver are tency in the quality of light is delivered with precision performance by the use of a unique locking mechanism that aligns the reflector with the light engine.

MOUNTING FRAME & BRACKETS

The downlight mounting frame is a fabricated assembly constructed of 18-gauge steel, with C-channel mounting brackets, included. The versatility of the mounting brackets allow for an adjustability of up to 24" horizontally, and 1.5" vertically, locking into place. With the added die-formed construction of the mounting frame, it provides maximum heat dissipation and rust protection.

Available with optional wet location trim.

SPECIFICATIONS:

LUMENS 800 / 1000 lumens

WATTAGE 13W / 17W

CCT 27K, 30K, 35K, 40K

CRI 90

LIGHT EFFICIENCY up to 63 lumens/watt

DIMMING 0-10V Dimming / Triac Dimming

VOLTAGE 120-277 VAC

POWER FREQUENCY 50/60 Hz

FINISH Black

APPLICABLE ENVIRONMENT Dry/Damp Location

Ordering Guide > Example: A2-ADJ-LED-800L-DIM10-MVOLT-MD-30K-90-A2R-F-1201-W-WH

A2-ADJ-LED								
SERIES	PERFORMANCE	DIMMING	VOLTAGE	OPTICS	CCT	CRI	TRIMS/COLORS	
A2-ADJ-LED-2" Architectural New Construction Adjustable Downlight	800L - 800 lumens	DIM10 - 0-10V Dimming	MVOLT- 120-277V	SP - (Spot)	27K - 2700K	90 - 90 CRI	ROUND	
	1000L - 1000 lumens	DIMTR / Triac Dimming	120V- Only for DIMTR	ND - (Narrow)	30K - 3000K		A2R-F-1201	W-WH, SN-SN
				MD - (Medium)	35K - 3500K		A2R-F-1202	W-WH, CL-WH, SN-SN
				WD - (Wide)	40K - 4000K		A2R-F-1227	W-WH, SN-SN
							A2R-F-1228	W-WH, CL-WH, SN-SN
							A2R-F-1263	W-WH
							SQUARE	COLORS
							A2S-F-1201	W-WH
							A2S-F-1202	W-WH
							A2S-F-1227	W-WH
					A2S-F-1228	W-WH		
					A2S-F-1263	W-WH		

A2-ADJ-LED

2" Architectural New Construction
Adjustable LED Downlight

ROUND / SQUARE TRIMS

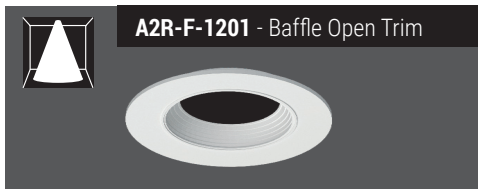
Catalog Number:

Project Name:

Note:

Type:

Round Flanged Trims



A2R-F-1201 - Baffle Open Trim

AVAILABLE COLOR OPTIONS:
W-WH (White-White)
SN-SN (Satin Nickel-Satin Nickel)



A2R-F-1227 - Baffle Lensed Trim

AVAILABLE COLOR OPTIONS:
W-WH (White-White)
SN-SN (Satin Nickel-Satin Nickel)



A2R-F-1202 - Reflector Open Trim

AVAILABLE COLOR OPTIONS:
W-WH (White-White)
CL-WH (Clear-White)
SN-SN (Satin Nickel-Satin Nickel)

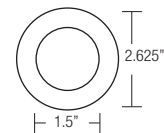


A2R-F-1228 - Reflector Lensed Trim

AVAILABLE COLOR OPTIONS:
W-WH (White-White)
CL-WH (Clear-White)
SN-SN (Satin Nickel-Satin Nickel)

TRIM OPTION:

Post painted powder coated Die-Cast trim available in white and custom colors. Please consult factory for custom paint color options. Trims attach to the housing with piano springs for snug fit and zero light leakage.



A2R-F-1263 - Wall Wash Trim

AVAILABLE COLOR OPTIONS:
W-WH (White-White)

Square Flanged Trims



A2S-F-1201 - Baffle Open Trim

AVAILABLE COLOR OPTION:
W-WH (White-White)



A2S-F-1227 - Baffle Lensed Trim

AVAILABLE COLOR OPTION:
W-WH (White-White)



A2S-F-1202 - Reflector Open Trim

AVAILABLE COLOR OPTION:
W-WH (White-White)

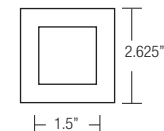


A2S-F-1228 - Reflector Lensed Trim

AVAILABLE COLOR OPTION:
W-WH (White-White)

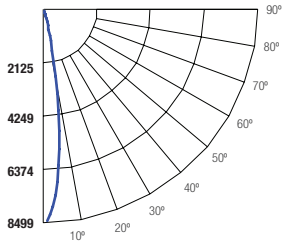
TRIM OPTION:

Post painted powder coated Die-Cast trim available in white and custom colors. Please consult factory for custom paint color options. Trims attach to the housing with piano springs for snug fit and zero light leakage.



A2S-F-1263 - Wall Wash Trim

AVAILABLE COLOR OPTIONS:
W-WH (White-White)

A2-ADJ-LED-1000L-DIM10-MVOLT-ND-40K-90-A2S-F-1201INPUT WATTS: **17.0375**LUMENS: **1115**CRI: **90**EFFICACY: **65**CCT: **4000K**TEST NO.: **EL09131992**SPACING CRITERIA: **0.34****Candle Power Distribution (Candelas)****Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	1019.44	91.40	91.40
0-30	1084.64	97.30	97.30
0-40	1093.67	98.10	98.10
0-60	1108.88	99.40	99.40
0-80	1114.12	99.90	99.90
0-90	1114.18	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4555	4909	4793
55	4118	4494	4685
65	2875	2908	3288
75	767	952	1455
85	39	39	39

Lumens Per Zone

Zone	Lumens
0-10	585.29
10-20	434.15
20-30	65.20
30-40	9.03
40-50	7.93
50-60	7.28
60-70	4.11
70-80	1.14
80-90	0.05

Candela Tabulation

Q	0	5	15	25	35	45	55	65	75	85	90
0	8463.45	6842.53	1007.39	57.77	10.61	9.41	6.90	3.55	0.58	0.01	0.01

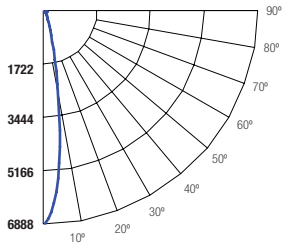
Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	70%	80%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	114	112	110	113	111	110	109	107	106	105	104	103	102	100	100	99	98
2	112	109	106	104	110	107	105	103	104	102	101	101	100	99	99	98	97	95
3	109	105	102	100	108	104	101	99	101	99	97	97	95	93	96	97	96	94
4	107	102	99	96	105	101	98	95	99	96	94	97	95	93	96	94	92	91
5	104	99	96	93	103	98	95	93	97	94	92	95	93	91	94	92	90	89
6	102	97	93	90	101	96	93	90	95	92	90	93	91	89	92	90	89	88
7	100	94	91	88	99	94	90	88	93	90	88	92	89	87	91	89	87	86
8	98	92	89	86	97	92	89	86	91	88	86	90	88	86	89	87	85	85
9	96	90	87	85	95	90	87	85	89	86	84	89	86	84	88	86	84	83
10	94	89	85	83	94	88	85	83	88	85	83	87	85	83	87	84	83	82

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

A2-ADJ-LED-1000L-DIM10-MVOLT-ND-40K-90-A2S-F-1227INPUT WATTS: **17.0128**LUMENS: **1014**CRI: **90**EFFICACY: **60**CCT: **4000K**TEST NO.: **EL09131994**SPACING CRITERIA: **0.36****Candle Power Distribution (Candelas)****Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	894.09	88.20	88.20
0-30	975.76	96.30	96.30
0-40	989.96	97.70	97.70
0-60	1006.74	99.30	99.30
0-80	1012.6	99.90	99.90
0-90	1012.64	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4918	4991	5330
55	4058	4219	4625
65	2948	2916	3378
75	807	1045	1587
85	39	39	39

Lumens Per Zone

Zone	Lumens
0-10	477.56
10-20	416.53
20-30	81.67
30-40	14.20
40-50	9.29
50-60	7.48
60-70	4.45
70-80	1.41
80-90	0.04

Candela Tabulation

Q	0	5	15	25	35	45	55	65	75	85	90
0	6841.11	5405.28	1040.65	78.51	14.34	10.16	6.80	3.64	0.61	0.01	0.01

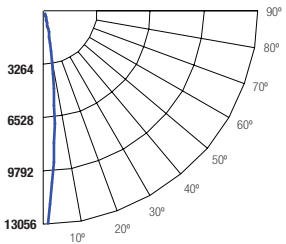
Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	70%	80%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88
6	101	95	91	89	100	94	91	88	93	90	88	92	89	87	91	88	87	86
7	98	93	89	86	97	92	89	86	91	88	86	90	87	85	89	87	85	84
8	96	90	87	84	95	90	86	84	89	86	84	88	85	83	87	85	83	82
9	94	88	85	82	93	88	84	82	87	84	82	86	84	82	86	83	81	81
10	92	86	83	81	92	86	83	80	85	82	80	85	82	80	84	82	80	79

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

A2-ADJ-LED-1000L-DIM10-MVOLT-SP-40K-90-A2R-F-1201INPUT WATTS: **17.1393**LUMENS: **1183**CRI: **90**EFFICACY: **69**CCT: **4000K**TEST NO.: **EL092619168**SPACING CRITERIA: **0.28****Candle Power Distribution (Candelas)****Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	1081.12	91.40	91.40
0-30	1158.66	97.90	97.90
0-40	1166.55	98.60	98.60
0-60	1177.88	99.60	99.60
0-80	1181.98	99.90	99.90
0-90	1182.02	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3485	3461	3742
55	3217	3264	3563
65	2163	2260	2713
75	423	661	1323
85	39	39	39

Lumens Per Zone

Zone	Lumens
0-10	671.36
10-20	409.75
20-30	77.54
30-40	7.89
40-50	5.97
50-60	5.36
60-70	3.20
70-80	0.90
80-90	0.04

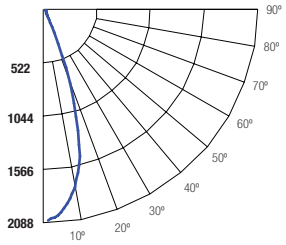
Candela Tabulation

Q	0	5	15	25	35	45	55	65	75	85	90
0	12423.61	7186.38	895.37	57.67	8.52	7.20	5.39	2.67	0.32	0.01	0.01

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	70%	80%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	114	112	111	113	112	110	109	108	107	105	104	103	102	101	100	99	98
2	112	109	107	105	110	108	105	103	105	103	101	102	100	99	99	98	97	96
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92
5	105	100	96	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90
6	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	90	89
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87
8	99	93	90	88	98	93	90	88	91	89	87	91	89	87	91	88	87	86
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83

A2-ADJ-LED-1000L-DIM10-MVOLT-WD-40K-90-A2R-F-1201INPUT WATTS: **17.292**LUMENS: **820**CRI: **90**EFFICACY: **47**CCT: **4000K**TEST NO.: **EL09121974**SPACING CRITERIA: **0.58****Candle Power Distribution (Candelas)**

Cone of Light				
2	708	1.2	1.2	
4	188	2.3	2.3	
6	81.9	3.4	3.4	
8	45.6	4.6	4.6	
10	29.7	5.7	5.7	
12	20.5	6.8	6.9	
Beam Dia. at 50% of Nadir F.C.		(F.C.) Initial Footcandle at Nadir	(F.T.) Beam Vert. Spread	(F.T.) Beam Horiz. Spread

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	576.64	70.40	70.40
0-30	744.25	90.80	90.80
0-40	766.75	93.50	93.50
0-60	805.31	98.30	98.30
0-80	818.32	99.80	99.80
0-90	818.37	99.80	99.80

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	12857	12035	11841
55	11232	11208	11554
65	7192	7500	8343
75	1521	2288	3571
85	79	79	79

Lumens Per Zone

Zone	Lumens
0-10	185.16
10-20	391.48
20-30	167.61
30-40	22.50
40-50	20.54
50-60	18.02
60-70	10.27
70-80	2.74
80-90	0.05

Candela Tabulation

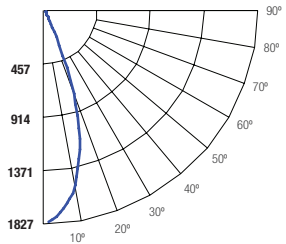
Q	
0	2046.59
5	1954.06
15	1339.65
25	175.79
35	30.68
45	26.56
55	18.82
65	8.88
75	1.15
85	0.02
90	0.02

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
0	119	119	119		119	116	116	116	116	111	111	111	106	106		102	102	102	100			
1	114	112	110		108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	106	102		99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			
3	105	100	96		93	104	99	95	92	92	94	90	94	91	89	92	89	88	86			
4	101	95	91		87	100	94	90	87	92	89	86	90	87	85	88	86	84	82			
5	98	91	86		83	96	90	86	82	88	85	82	87	83	81	85	82	80	79			
6	94	87	82		79	93	86	82	79	85	81	78	84	80	77	82	79	77	76			
7	91	84	79		75	90	83	78	75	82	78	75	81	77	74	80	76	74	73			
8	88	80	76		72	87	80	75	72	79	75	72	78	74	72	77	74	71	70			
9	85	77	73		70	84	77	72	69	76	72	69	75	72	69	75	71	69	68			
10	82	75	70		67	82	74	70	67	74	70	67	73	69	67	72	69	66	65			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

A2-ADJ-LED-1000L-DIM10-MVOLT-WD-40K-90-A2R-F-1227INPUT WATTS: **17.0165**LUMENS: **694**CRI: **90**EFFICACY: **41**CCT: **4000K**TEST NO.: **EL09121976**SPACING CRITERIA: **0.58****Candle Power Distribution (Candelas)**

Cone of Light				
2	614	1.1	1.1	
4	163	2.2	2.2	
6	71.0	3.3	3.3	
8	39.5	4.4	4.4	
10	25.8	5.5	5.4	
12	17.7	6.6	6.5	
Beam Dia. at 50% of Nadir F.C.		(F.C.) Initial Footcandle at Nadir	(F.T.) Beam Vert. Spread	(F.T.) Beam Horiz. Spread

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	481.52	69.30	69.30
0-30	625.27	90.00	90.10
0-40	649.05	93.50	93.50
0-60	684.56	98.60	98.60
0-80	693.01	99.80	99.80
0-90	693.08	99.80	99.80

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	12819	12035	11962
55	11637	11781	12139
65	5880	6042	5897
75	2209	2566	2764
85	79	39	79

Lumens Per Zone

Zone	Lumens
0-10	159.18
10-20	322.33
20-30	143.75
30-40	23.78
40-50	19.57
50-60	15.94
60-70	6.64
70-80	1.82
80-90	0.07

Candela Tabulation

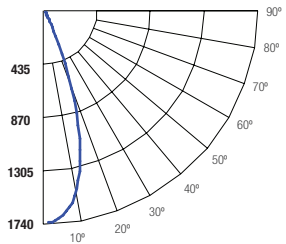
Q	
0	1774.79
5	1645.70
15	1007.93
25	144.18
35	29.38
45	26.48
55	19.50
65	7.26
75	1.67
85	0.02
90	0.01

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	112	110	108	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	106	102	99	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			
3	105	100	96	93	93	104	99	95	92	96	93	90	94	91	89	92	89	88	86			
4	101	95	91	87	87	92	87	84	80	86	83	80	86	83	80	85	82	84	82			
5	98	91	86	83	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79			
6	94	87	82	79	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76			
7	91	83	79	75	75	90	83	78	75	82	78	75	81	77	74	79	76	74	73			
8	88	80	75	72	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70			
9	85	77	73	69	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67			
10	82	75	70	67	67	81	74	70	67	73	69	67	73	69	66	72	69	66	65			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

A2-ADJ-LED-1000L-DIM10-MVOLT-WD-40K-90-A2S-F-1227INPUT WATTS: **17.0136**LUMENS: **653**CRI: **90**EFFICACY: **38**CCT: **4000K**TEST NO.: **EL09121977**SPACING CRITERIA: **0.58****Candle Power Distribution (Candelas)**

Cone of Light				
2	598	1.1	1.1	
4	159	2.1	2.1	
6	69.2	3.2	3.2	
8	38.5	4.2	4.2	
10	25.1	5.3	5.4	
12	17.3	6.3	6.5	
Beam Dia. at 50% of Nadir F.C.		(F.C.) Initial Footcandle at Nadir	(F.T.) Beam Vert. Spread	(F.T.) Beam Horiz. Spread

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	460.67	70.50	70.50
0-30	590.36	90.40	90.40
0-40	612.22	93.70	93.70
0-60	641.83	98.30	98.20
0-80	652.13	99.80	99.80
0-90	652.19	99.80	99.80

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	9808	10447	9929
55	8152	9065	8803
65	6002	6302	6820
75	2024	2592	3254
85	39	39	39

Lumens Per Zone

Zone	Lumens
0-10	155.06
10-20	305.61
20-30	129.69
30-40	21.86
40-50	16.26
50-60	13.35
60-70	7.92
70-80	2.38
80-90	0.06