

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P755050

Luminaire Tested: LD4D85BD010-EU4DR6070959030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6070959030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

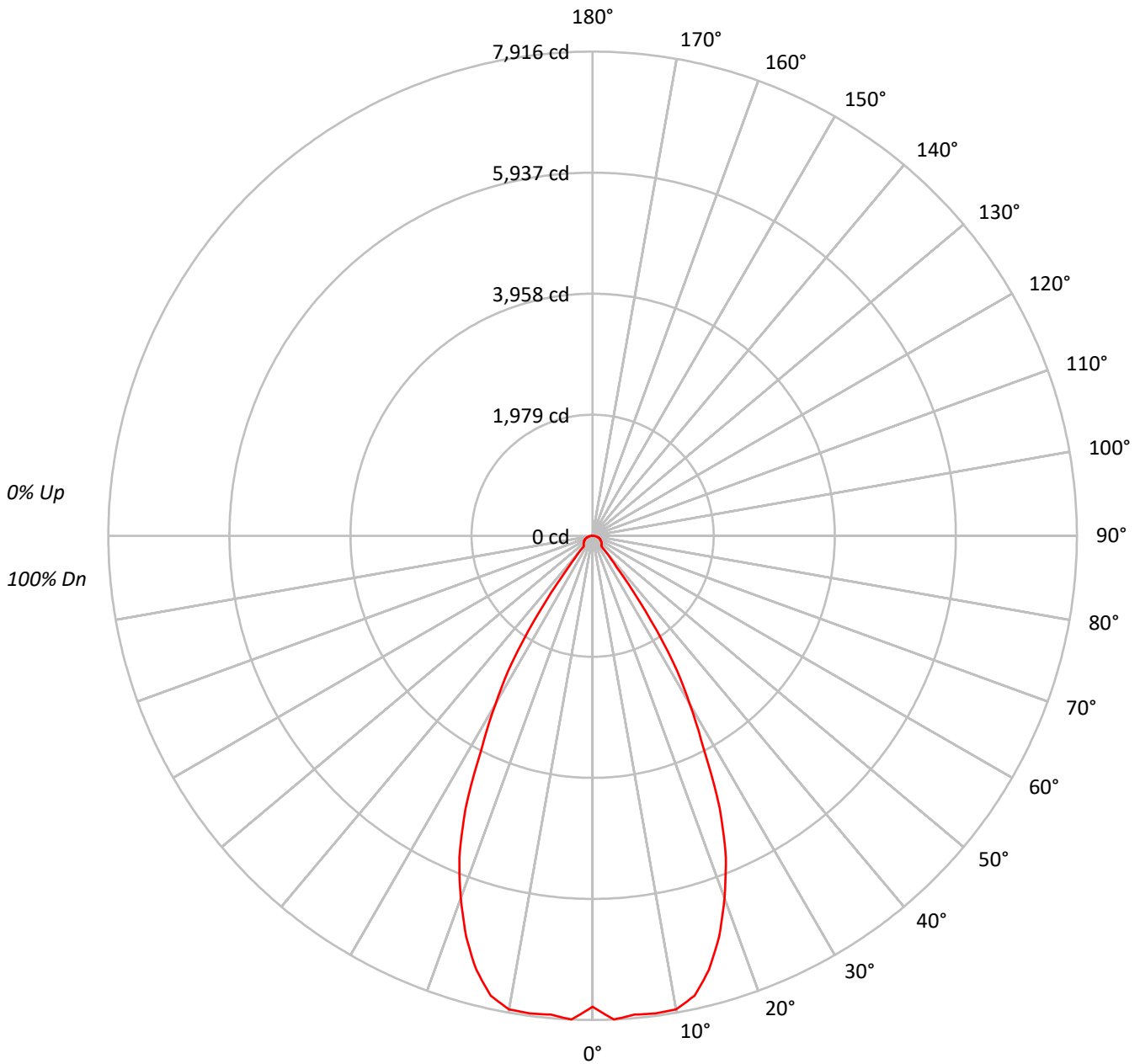
Lumens per Lamp: N/A
Luminaire Lumens: 6483.4 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	841297
5°	861982
10°	872393
15°	831079
20°	732752
25°	592677
30°	400897
35°	200888
40°	32591
45°	31893
50°	32534
55°	33031
60°	33936
65°	34721
70°	35524
75°	35967
80°	34669
85°	28833

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 35967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.1	11.6
10°-20°	2032.3	31.3
20°-30°	2186.6	33.7
30°-40°	950.5	14.7
40°-50°	159.6	2.5
50°-60°	155.2	2.4
60°-70°	132.8	2.0
70°-80°	88.8	1.4
80°-90°	26.6	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4970.0	76.7
0°-40°	5920.4	91.3
0°-60°	6235.3	96.2
0°-90°	6483.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6483.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7700	
5°	7859	751
15°	7347	2032
25°	4916	2187
35°	1506	950
45°	206	160
55°	173	155
65°	134	133
75°	85	89
85°	23	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7699.9
2.5°	7916.4
5°	7859.2
7.5°	7877.3
10°	7863.2
12.5°	7700.9
15°	7347.2
17.5°	6872.2
20°	6302.0
22.5°	5691.8
25°	4916.2
27.5°	3932.1
30°	3177.6
32.5°	2449.1
35°	1506.1
37.5°	644.3
40°	228.5
42.5°	210.4
45°	206.4
47.5°	199.4
50°	191.4
52.5°	182.4
55°	173.4
57.5°	164.3
60°	155.3
62.5°	145.3
65°	134.3
67.5°	123.3
70°	111.2
72.5°	98.2
75°	85.2
77.5°	70.1
80°	55.1
82.5°	39.1
85°	23.0
87.5°	8.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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