

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: P755843

Luminaire Tested: LD4D90BD010-EU4DR6070959035-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755843
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: LD4D90BD010-EU4DR6070959035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

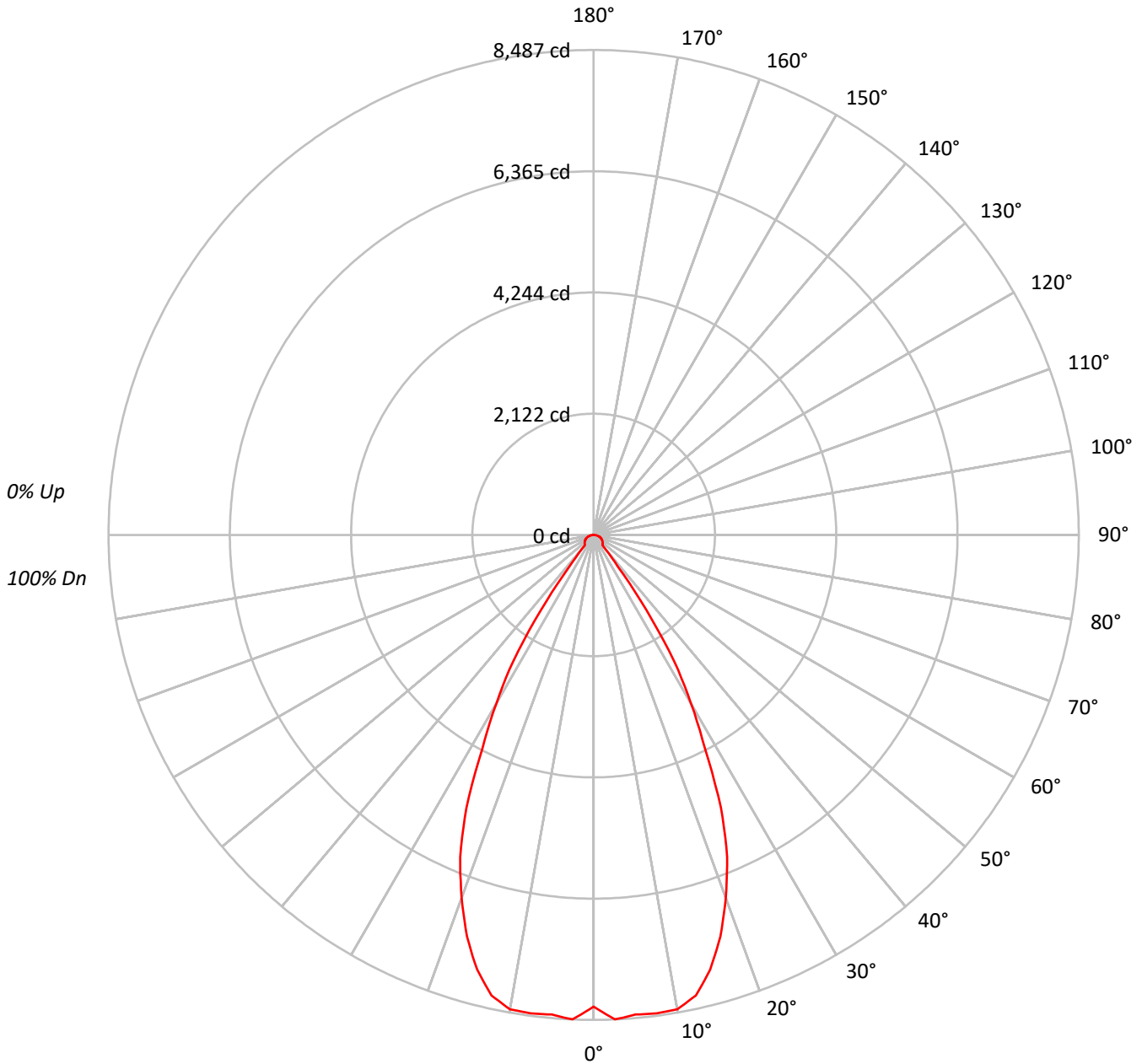
Lumens per Lamp: N/A
Luminaire Lumens: 6950.5 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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°	901904
5°	924082
10°	935244
15°	890939
20°	785539
25°	635366
30°	429776
35°	215360
40°	34930
45°	34195
50°	34880
55°	35393
60°	36384
65°	37229
70°	38079
75°	38542
80°	37186
85°	30965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 38542 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.3	11.6
10°-20°	2178.7	31.3
20°-30°	2344.1	33.7
30°-40°	1018.9	14.7
40°-50°	171.1	2.5
50°-60°	166.4	2.4
60°-70°	142.3	2.0
70°-80°	95.2	1.4
80°-90°	28.5	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°	5328.0	76.7
0°-40°	6346.9	91.3
0°-60°	6684.4	96.2
0°-90°	6950.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6950.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8255	
5°	8425	805
15°	7876	2179
25°	5270	2344
35°	1615	1019
45°	221	171
55°	186	166
65°	144	142
75°	91	95
85°	25	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8254.6
2.5°	8486.6
5°	8425.4
7.5°	8444.7
10°	8429.7
12.5°	8255.7
15°	7876.4
17.5°	7367.2
20°	6756.0
22.5°	6101.8
25°	5270.3
27.5°	4215.4
30°	3406.5
32.5°	2625.5
35°	1614.6
37.5°	690.7
40°	244.9
42.5°	225.6
45°	221.3
47.5°	213.8
50°	205.2
52.5°	195.5
55°	185.8
57.5°	176.2
60°	166.5
62.5°	155.8
65°	144.0
67.5°	132.1
70°	119.2
72.5°	105.3
75°	91.3
77.5°	75.2
80°	59.1
82.5°	41.9
85°	24.7
87.5°	8.6
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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