

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: P748349

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR3040509035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4269.8 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

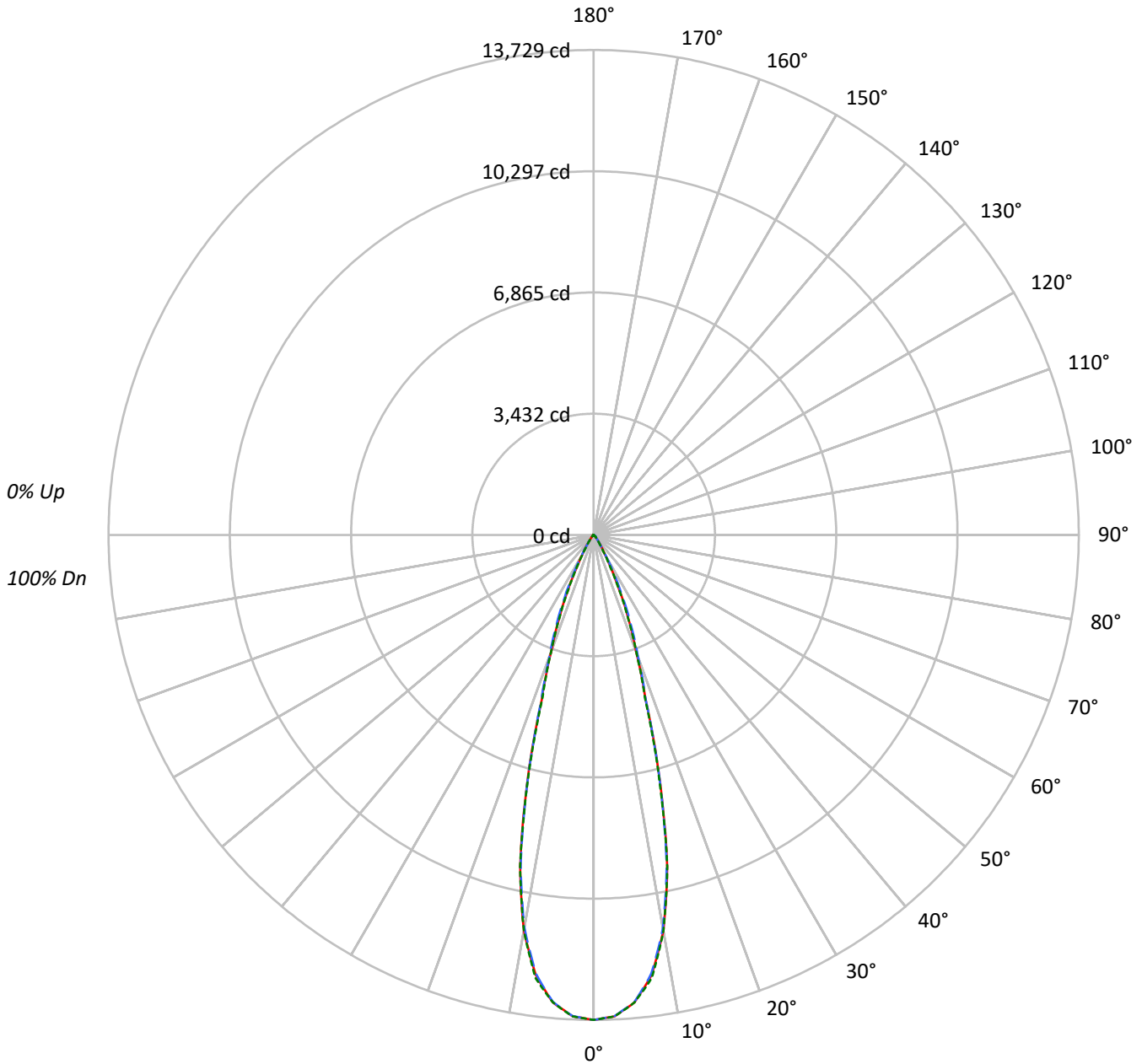
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1050895	1050895	1050895
5°	1020733	1019534	1020779
10°	884105	877872	883895
15°	576838	573739	570855
20°	286830	297599	286447
25°	144488	162933	141523
30°	57848	63036	50406
35°	26837	25697	21538
40°	11581	12860	10911
45°	8173	10143	8249
50°	2810	7383	2965
55°	1615	3056	1708
60°	1133	1347	1133
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1207.3	28.3
10°-20°	1944.4	45.5
20°-30°	840.2	19.7
30°-40°	191.5	4.5
40°-50°	65.8	1.5
50°-60°	16.1	0.4
60°-70°	4.2	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
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°	3991.9	93.5
0°-40°	4183.4	98.0
0°-60°	4265.2	99.9
0°-90°	4269.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13729	13729	13729	13729	13729	
5°	13285	13272	13269	13297	13285	1208
15°	7279	7192	7240	7217	7204	1949
25°	1711	1776	1929	1730	1676	819
35°	287	293	275	273	230	195
45°	76	94	94	94	76	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13729.4	13729.4	13729.4	13729.4	13729.4
2.5°	13638.4	13629.0	13634.4	13641.1	13643.8
5°	13284.6	13271.7	13269.0	13296.7	13285.2
7.5°	12570.7	12552.5	12524.9	12587.6	12646.2
10°	11374.9	11354.7	11294.7	11324.4	11372.2
12.5°	9609.5	9544.1	9542.8	9637.2	9624.4
15°	7279.3	7191.6	7240.2	7216.6	7203.8
17.5°	4895.1	4861.4	4926.1	4906.5	4822.3
20°	3521.3	3530.1	3653.5	3591.4	3516.6
22.5°	2569.6	2601.2	2747.5	2587.8	2529.1
25°	1710.8	1775.5	1929.2	1730.3	1675.7
27.5°	1052.2	1081.9	1237.6	1038.7	1009.1
30°	654.5	639.7	713.2	612.1	570.3
32.5°	429.4	410.5	434.1	389.6	355.9
35°	287.2	293.2	275.0	273.0	230.5
37.5°	179.3	206.3	182.0	194.1	148.3
40°	115.9	149.6	128.7	142.2	109.2
42.5°	95.0	115.3	105.8	112.6	97.1
45°	75.5	93.7	93.7	93.7	76.2
47.5°	41.8	62.7	80.2	64.0	44.5
50°	23.6	31.7	62.0	33.0	24.9
52.5°	16.2	18.2	42.5	18.9	16.9
55°	12.1	12.8	22.9	13.5	12.8
57.5°	9.4	10.1	12.1	10.1	9.4
60°	7.4	7.4	8.8	8.1	7.4
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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