

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: P743157

Luminaire Tested: LD4D15D010-EU4DR300215IC9040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743157
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: LD4D15D010-EU4DR300215IC9040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1422.7 lumens
Efficiency: N/A
Efficacy: 90.0 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): 15.8
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



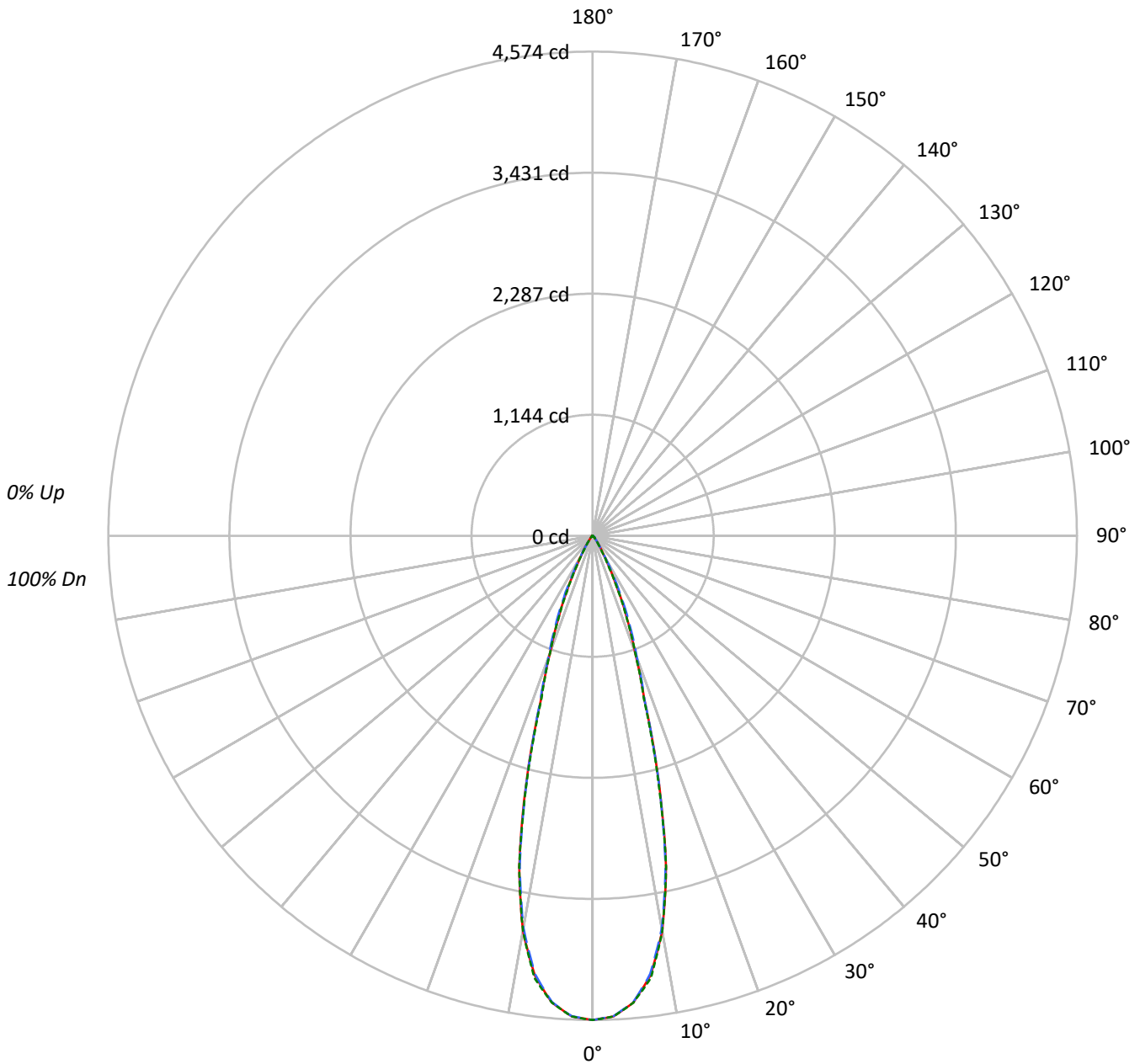
Downlight



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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	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°	350140	350140	350140
5°	340091	339699	340106
10°	294575	292499	294505
15°	192197	191167	190200
20°	95572	99156	95442
25°	48140	54289	47152
30°	19277	21000	16793
35°	8942	8559	7176
40°	3857	4287	3637
45°	2728	3377	2750
50°	929	2465	988
55°	547	1014	560
60°	383	444	383
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.3	28.3
10°-20°	647.8	45.5
20°-30°	279.9	19.7
30°-40°	63.8	4.5
40°-50°	21.9	1.5
50°-60°	5.4	0.4
60°-70°	1.4	0.1
70°-80°	0.1	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°	1330.0	93.5
0°-40°	1393.8	98.0
0°-60°	1421.1	99.9
0°-90°	1422.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4574	4574	4574	4574	4574	
5°	4426	4422	4421	4430	4426	403
15°	2425	2396	2412	2404	2400	649
25°	570	592	643	576	558	273
35°	96	98	92	91	77	65
45°	25	31	31	31	25	18
55°	4	4	8	4	4	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4574.4	4574.4	4574.4	4574.4	4574.4
2.5°	4544.1	4541.0	4542.8	4545.0	4546.0
5°	4426.2	4422.0	4421.1	4430.3	4426.4
7.5°	4188.4	4182.3	4173.1	4194.0	4213.5
10°	3790.0	3783.3	3763.3	3773.1	3789.1
12.5°	3201.8	3180.0	3179.5	3211.0	3206.7
15°	2425.4	2396.1	2412.4	2404.4	2400.2
17.5°	1631.0	1619.7	1641.3	1634.8	1606.7
20°	1173.3	1176.2	1217.3	1196.6	1171.7
22.5°	856.2	866.7	915.4	862.2	842.6
25°	570.0	591.6	642.8	576.5	558.3
27.5°	350.6	360.4	412.4	346.1	336.2
30°	218.1	213.1	237.6	203.9	190.0
32.5°	143.1	136.8	144.6	129.8	118.6
35°	95.7	97.7	91.6	91.0	76.8
37.5°	59.8	68.7	60.6	64.7	49.4
40°	38.6	49.8	42.9	47.4	36.4
42.5°	31.7	38.4	35.2	37.5	32.3
45°	25.2	31.2	31.2	31.2	25.4
47.5°	13.9	20.9	26.7	21.3	14.8
50°	7.8	10.5	20.7	11.0	8.3
52.5°	5.4	6.1	14.2	6.3	5.6
55°	4.1	4.2	7.6	4.5	4.2
57.5°	3.2	3.4	4.1	3.4	3.2
60°	2.5	2.5	2.9	2.7	2.5
62.5°	1.8	1.8	2.0	1.8	1.8
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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