

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: P744143

Luminaire Tested: LD4D20D010-EU4DR3020359035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744143
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: LD4D20D010-EU4DR3020359035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1443.6 lumens
Efficiency: N/A
Efficacy: 62.5 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): 23.1
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



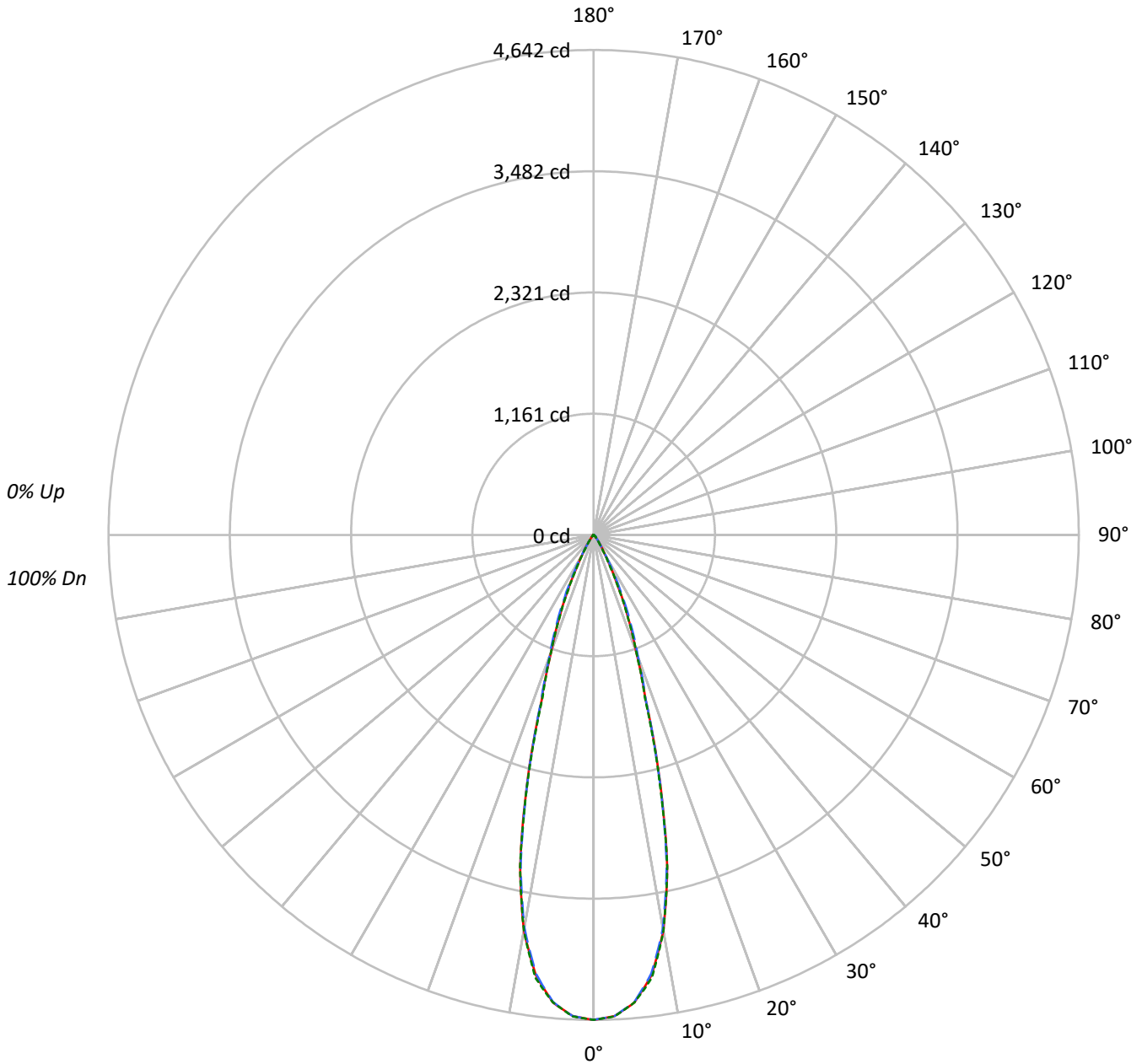
Downlight



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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°	355291	355291	355291
5°	345085	344685	345108
10°	298896	296790	298826
15°	195018	193972	192990
20°	96973	100614	96843
25°	48850	55082	47844
30°	19560	21310	17041
35°	9073	8690	7279
40°	3917	4347	3687
45°	2760	3431	2782
50°	953	2501	1000
55°	547	1028	587
60°	383	459	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: 3431 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.2	28.3
10°-20°	657.4	45.5
20°-30°	284.1	19.7
30°-40°	64.7	4.5
40°-50°	22.2	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°	1349.6	93.5
0°-40°	1414.3	98.0
0°-60°	1442.0	99.9
0°-90°	1443.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4642	4642	4642	4642	4642	
5°	4491	4487	4486	4495	4492	408
15°	2461	2431	2448	2440	2435	659
25°	578	600	652	585	566	277
35°	97	99	93	92	78	66
45°	26	32	32	32	26	18
55°	4	4	8	5	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°	4641.7	4641.7	4641.7	4641.7	4641.7
2.5°	4610.9	4607.7	4609.6	4611.9	4612.7
5°	4491.2	4486.9	4486.0	4495.4	4491.5
7.5°	4249.9	4243.8	4234.5	4255.6	4275.5
10°	3845.6	3838.8	3818.5	3828.6	3844.7
12.5°	3248.8	3226.7	3226.2	3258.1	3253.8
15°	2461.0	2431.4	2447.8	2439.8	2435.4
17.5°	1655.0	1643.6	1665.5	1658.8	1630.3
20°	1190.5	1193.5	1235.2	1214.2	1188.9
22.5°	868.7	879.4	928.9	874.9	855.1
25°	578.4	600.3	652.2	585.0	566.5
27.5°	355.7	365.8	418.4	351.2	341.1
30°	221.3	216.3	241.1	206.9	192.8
32.5°	145.2	138.8	146.8	131.7	120.3
35°	97.1	99.1	93.0	92.3	77.9
37.5°	60.6	69.7	61.5	65.7	50.1
40°	39.2	50.6	43.5	48.1	36.9
42.5°	32.1	39.0	35.8	38.0	32.8
45°	25.5	31.7	31.7	31.7	25.7
47.5°	14.2	21.2	27.1	21.7	15.1
50°	8.0	10.7	21.0	11.2	8.4
52.5°	5.4	6.1	14.4	6.4	5.7
55°	4.1	4.4	7.7	4.6	4.4
57.5°	3.2	3.4	4.1	3.4	3.2
60°	2.5	2.5	3.0	2.8	2.5
62.5°	1.8	1.8	2.1	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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