

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: P745789

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR1515309040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2842.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 29
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

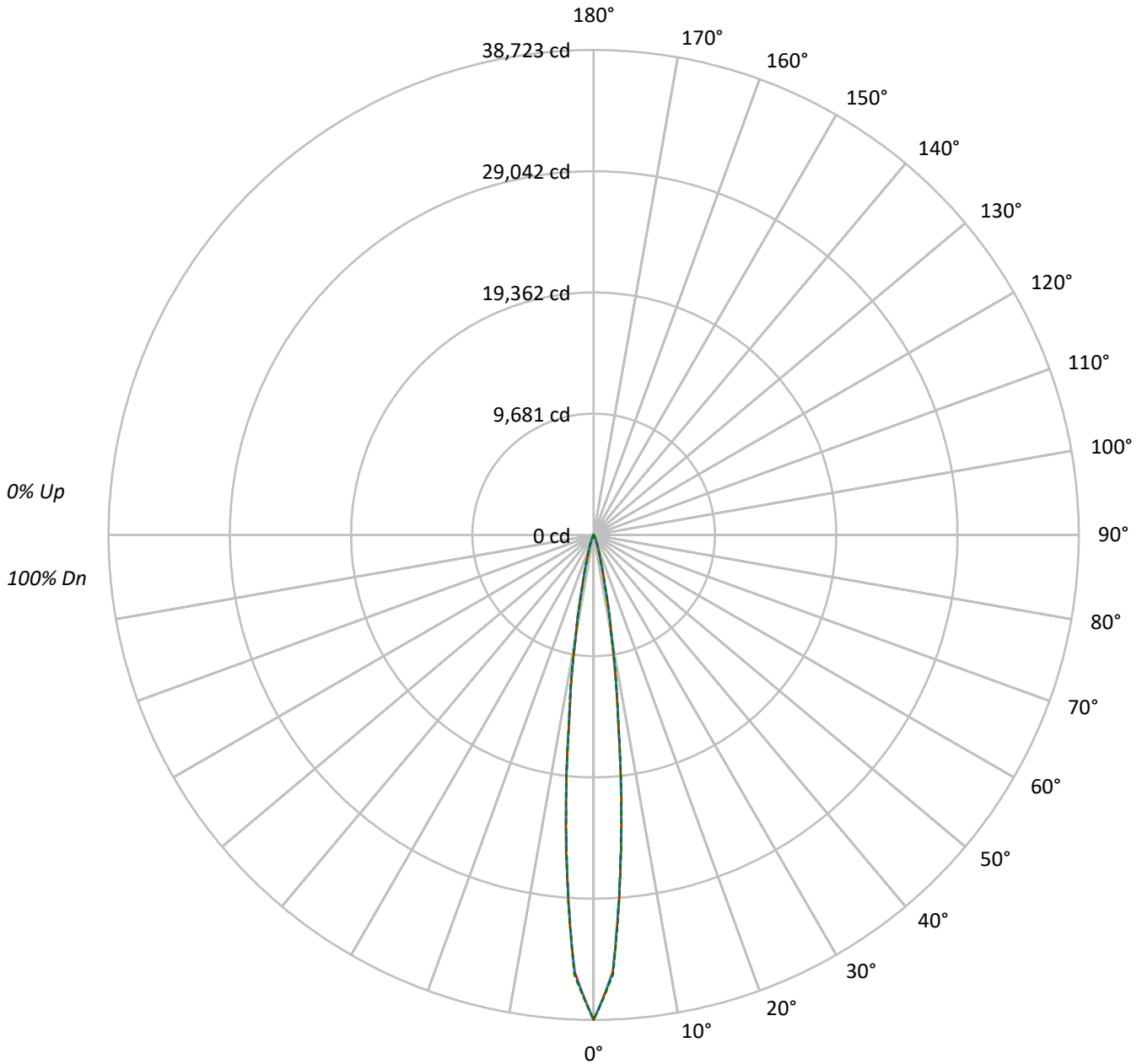


Downlight



TEST NUMBER: P745789
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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4357155	4357155	4357155
5°	2560469	2527318	2547308
10°	764180	769536	781311
15°	190086	193786	187802
20°	56875	65859	58078
25°	20052	25544	20301
30°	7368	9697	7488
35°	3689	4168	3573
40°	2329	2564	2329
45°	1722	1834	1722
50°	1370	1370	1370
55°	1142	1142	1142
60°	920	920	920
65°	699	699	699
70°	600	600	600
75°	370	370	499
80°	260	260	260
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1843.3	64.9
10°-20°	758.2	26.7
20°-30°	150.6	5.3
30°-40°	37.6	1.3
40°-50°	19.8	0.7
50°-60°	14.7	0.5
60°-70°	10.3	0.4
70°-80°	5.9	0.2
80°-90°	1.8	0.1
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°	2752.1	96.8
0°-40°	2789.7	98.2
0°-60°	2824.1	99.4
0°-90°	2842.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38723	38723	38723	38723	38723	
5°	25194	24935	24868	25040	25065	1840
15°	2188	2229	2231	2192	2162	750
25°	257	292	328	290	261	135
35°	51	54	57	54	49	34
45°	25	25	26	25	25	19
55°	16	16	16	16	16	15
65°	10	10	10	10	10	10
75°	5	5	5	5	7	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	38723.4	38723.4	38723.4	38723.4	38723.4
2.5°	34930.1	34959.6	34971.1	35005.5	35133.4
5°	25194.3	24935.3	24868.1	25040.2	25064.8
7.5°	14924.1	14976.6	15168.4	15211.0	15056.9
10°	8189.9	8257.1	8247.3	8306.3	8373.5
12.5°	4188.4	4135.9	4119.5	4186.8	4093.3
15°	2188.5	2229.4	2231.1	2191.7	2162.2
17.5°	1177.0	1224.6	1303.2	1239.3	1140.9
20°	695.1	737.7	804.9	752.4	709.8
22.5°	429.5	463.9	511.5	470.5	436.1
25°	257.4	291.8	327.9	290.2	260.6
27.5°	152.5	182.0	204.9	180.3	150.8
30°	98.4	114.8	129.5	113.1	100.0
32.5°	68.9	75.4	82.0	75.4	68.9
35°	50.8	54.1	57.4	54.1	49.2
37.5°	39.3	42.6	44.3	41.0	37.7
40°	32.8	34.4	36.1	34.4	32.8
42.5°	27.9	29.5	29.5	29.5	27.9
45°	24.6	24.6	26.2	24.6	24.6
47.5°	21.3	21.3	23.0	21.3	21.3
50°	19.7	19.7	19.7	19.7	19.7
52.5°	18.0	18.0	18.0	18.0	18.0
55°	16.4	16.4	16.4	16.4	16.4
57.5°	14.8	14.8	14.8	14.8	14.8
60°	13.1	13.1	13.1	13.1	13.1
62.5°	11.5	11.5	11.5	11.5	11.5
65°	9.8	9.8	9.8	9.8	9.8
67.5°	9.8	9.8	9.8	9.8	9.8
70°	8.2	8.2	8.2	8.2	8.2
72.5°	6.6	6.6	6.6	6.6	6.6
75°	4.9	4.9	4.9	4.9	6.6
77.5°	4.9	4.9	4.9	4.9	4.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6
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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