

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: P745757

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745757
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-EU4DR1515309030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2476.7 lumens
Efficiency: N/A
Efficacy: 85.4 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 (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

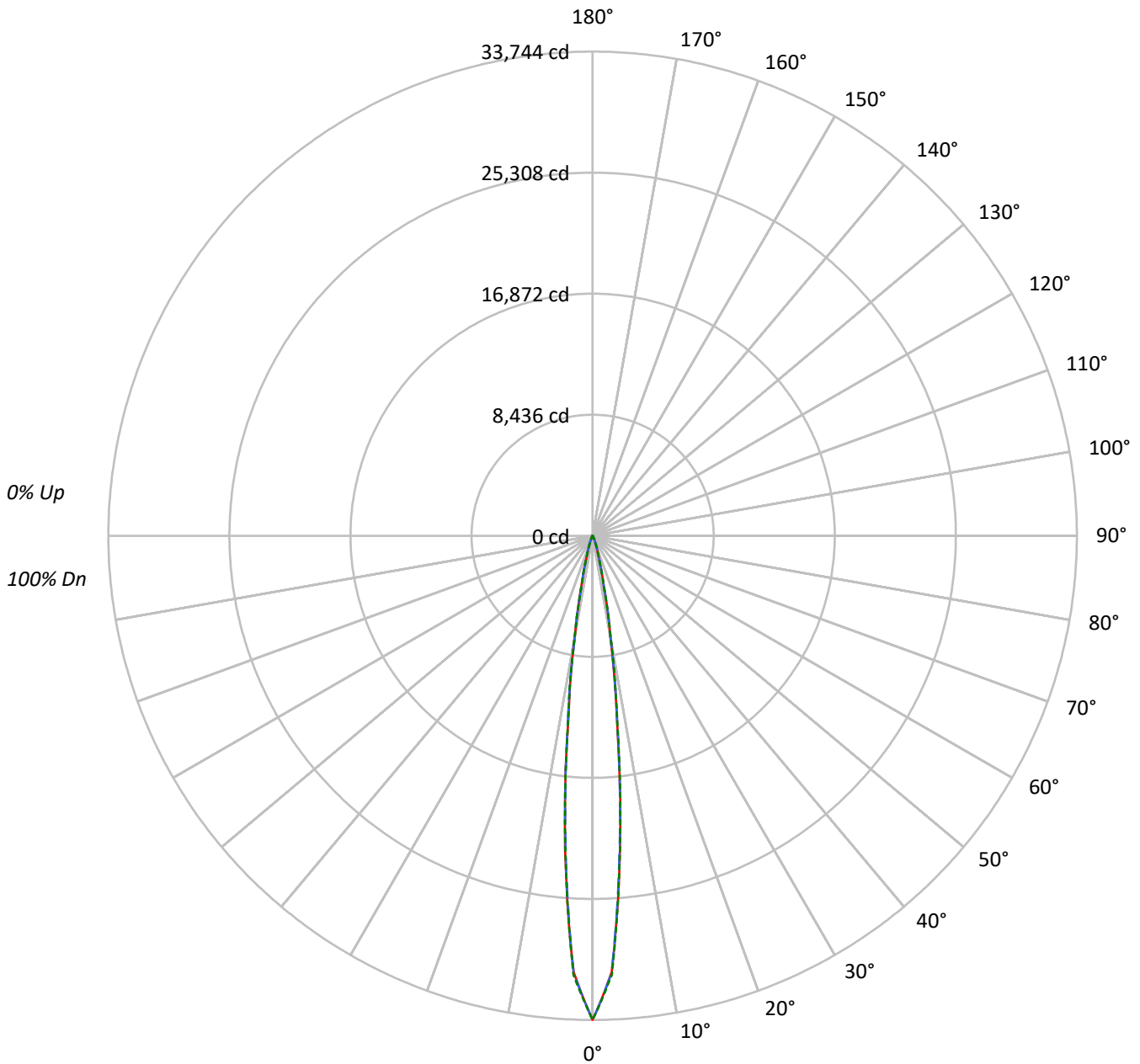


Downlight



TEST NUMBER: P745757
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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°	3796929	3796929	3796929
5°	2231252	2202359	2219779
10°	665927	670592	680856
15°	165645	168867	163656
20°	49560	57391	50607
25°	17473	22256	17691
30°	6417	8454	6522
35°	3217	3631	3115
40°	2031	2230	2031
45°	1498	1603	1498
50°	1189	1189	1189
55°	995	995	995
60°	800	800	800
65°	614	614	614
70°	519	519	519
75°	325	325	431
80°	229	229	229
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1603 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1606.3	64.9
10°-20°	660.7	26.7
20°-30°	131.2	5.3
30°-40°	32.8	1.3
40°-50°	17.2	0.7
50°-60°	12.8	0.5
60°-70°	9.0	0.4
70°-80°	5.1	0.2
80°-90°	1.6	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°	2398.3	96.8
0°-40°	2431.0	98.2
0°-60°	2461.0	99.4
0°-90°	2476.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33744	33744	33744	33744	33744	
5°	21955	21729	21671	21821	21842	1603
15°	1907	1943	1944	1910	1884	654
25°	224	254	286	253	227	118
35°	44	47	50	47	43	30
45°	21	21	23	21	21	17
55°	14	14	14	14	14	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33744.5	33744.5	33744.5	33744.5	33744.5
2.5°	30438.9	30464.6	30474.6	30504.6	30616.0
5°	21954.9	21729.2	21670.6	21820.6	21842.0
7.5°	13005.2	13050.9	13218.1	13255.2	13120.9
10°	7136.9	7195.4	7186.9	7238.3	7296.9
12.5°	3649.9	3604.2	3589.9	3648.4	3567.0
15°	1907.1	1942.8	1944.2	1909.9	1884.2
17.5°	1025.7	1067.1	1135.7	1080.0	994.2
20°	605.7	642.8	701.4	655.7	618.5
22.5°	374.3	404.3	445.7	410.0	380.0
25°	224.3	254.3	285.7	252.8	227.1
27.5°	132.9	158.6	178.6	157.1	131.4
30°	85.7	100.0	112.9	98.6	87.1
32.5°	60.0	65.7	71.4	65.7	60.0
35°	44.3	47.1	50.0	47.1	42.9
37.5°	34.3	37.1	38.6	35.7	32.9
40°	28.6	30.0	31.4	30.0	28.6
42.5°	24.3	25.7	25.7	25.7	24.3
45°	21.4	21.4	22.9	21.4	21.4
47.5°	18.6	18.6	20.0	18.6	18.6
50°	17.1	17.1	17.1	17.1	17.1
52.5°	15.7	15.7	15.7	15.7	15.7
55°	14.3	14.3	14.3	14.3	14.3
57.5°	12.9	12.9	12.9	12.9	12.9
60°	11.4	11.4	11.4	11.4	11.4
62.5°	10.0	10.0	10.0	10.0	10.0
65°	8.6	8.6	8.6	8.6	8.6
67.5°	8.6	8.6	8.6	8.6	8.6
70°	7.1	7.1	7.1	7.1	7.1
72.5°	5.7	5.7	5.7	5.7	5.7
75°	4.3	4.3	4.3	4.3	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.4	1.4	1.4	1.4	1.4
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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