

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: P745872

Luminaire Tested: LD4D30D010-EU4DR2015309040-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR2015309040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2460.9 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
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

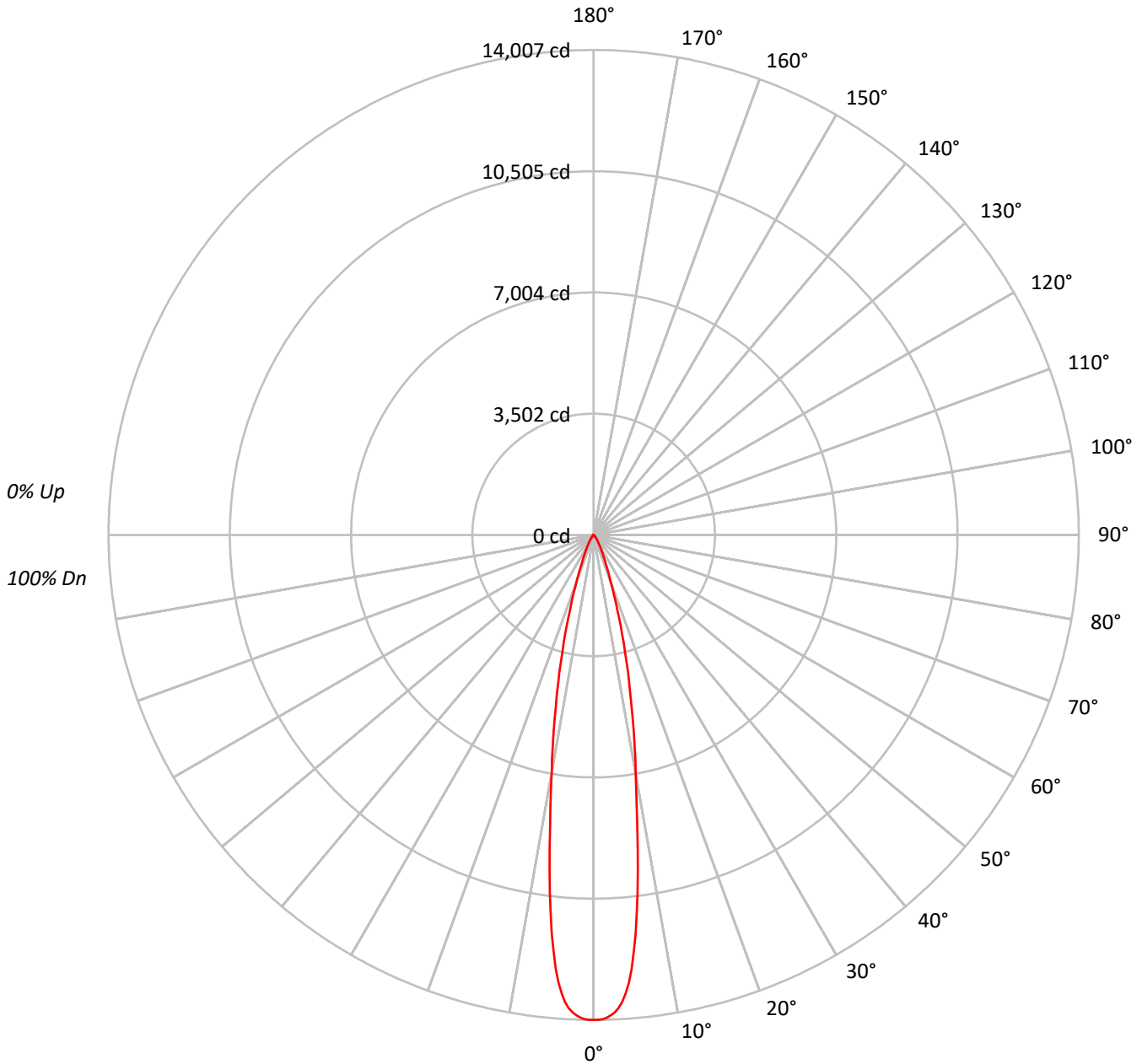


Downlight



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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				100															
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	98	93	92															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1530415
5°	1380716
10°	774938
15°	393912
20°	166782
25°	76987
30°	40751
35°	21955
40°	11738
45°	6938
50°	4029
55°	2133
60°	1355
65°	957
70°	383
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6938 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.3	40.5
10°-20°	982.0	39.9
20°-30°	320.8	13.0
30°-40°	109.2	4.4
40°-50°	36.7	1.5
50°-60°	11.0	0.4
60°-70°	3.7	0.1
70°-80°	0.2	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°	2300.1	93.5
0°-40°	2409.3	97.9
0°-60°	2457.0	99.8
0°-90°	2460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14007	
5°	12589	997
15°	3482	982
25°	639	321
35°	165	109
45°	45	37
55°	11	11
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14007.0
0.5°	14007.0
1°	13989.5
1.5°	13954.6
2°	13891.0
2.5°	13806.2
3°	13686.4
3.5°	13519.3
4°	13271.1
4.5°	12969.2
5°	12588.8
5.5°	12088.7
6°	11576.0
6.5°	10988.6
7°	10413.6
7.5°	9740.0
8°	9138.8
8.5°	8533.9
9°	7975.1
9.5°	7462.5
10°	6984.8
12.5°	5015.3
15°	3482.4
17.5°	2275.0
20°	1434.4
22.5°	929.2
25°	638.6
27.5°	449.0
30°	323.0
32.5°	232.0
35°	164.6
37.5°	114.7
40°	82.3
42.5°	59.9
45°	44.9
47.5°	34.9
50°	23.7
52.5°	15.0
55°	11.2
57.5°	8.7
60°	6.2
62.5°	5.0
65°	3.7



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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Scaled Data Report





67.5°		2.5
70°		1.2

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(END OF REPORT)