

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: P751469

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751469
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: LD4D65D010-EU4DR3055659035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6895.0 lumens
Efficiency: N/A
Efficacy: 94.7 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

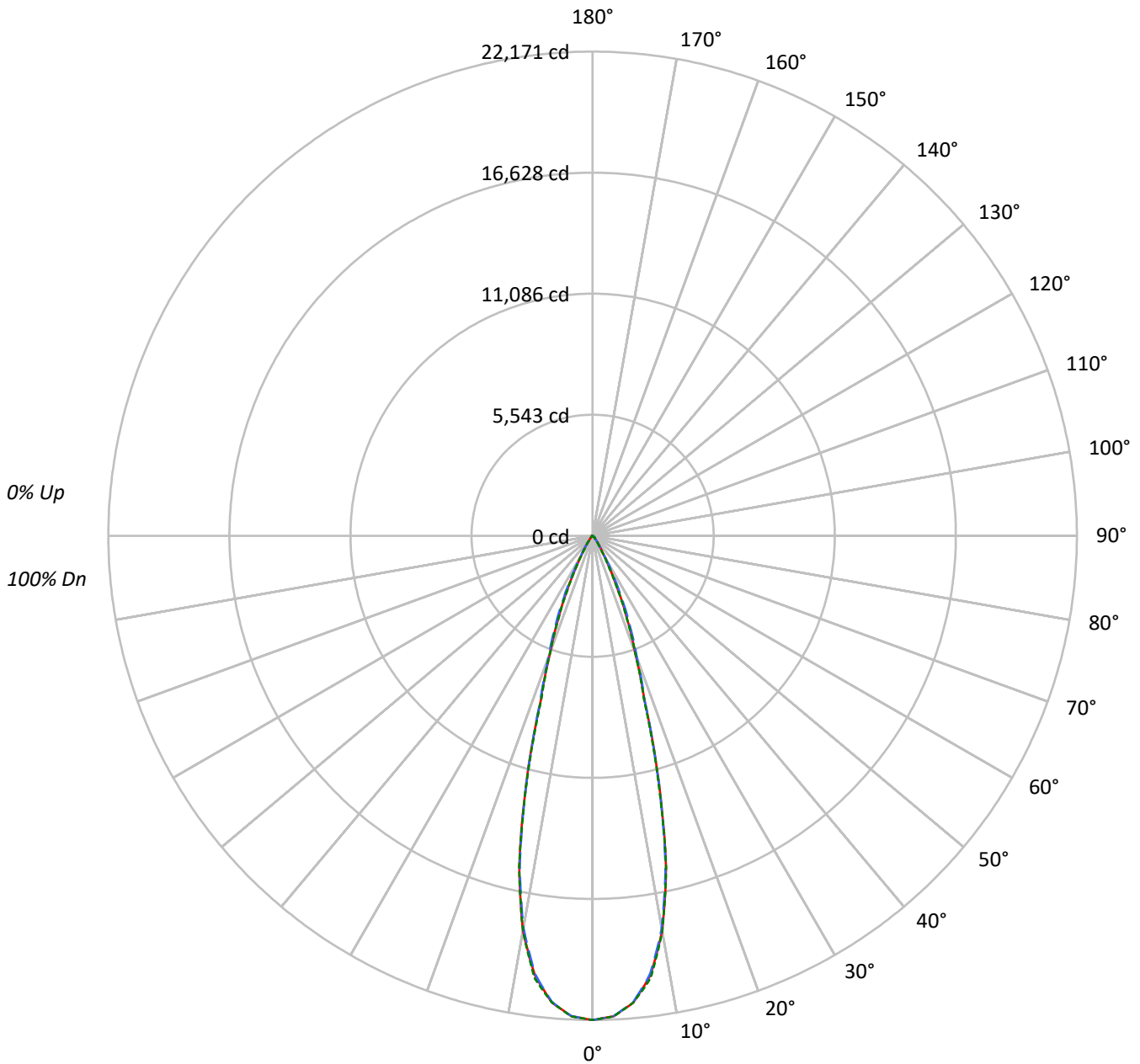
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1697021	1697021	1697021
5°	1648304	1646383	1648389
10°	1427685	1417612	1427343
15°	931492	926492	921832
20°	463190	480565	462563
25°	233319	263107	228539
30°	93414	101784	81393
35°	43329	41498	34789
40°	18705	20773	17616
45°	13196	16378	13315
50°	4537	11920	4799
55°	2616	4938	2762
60°	1837	2174	1837
65°	1177	1177	1177
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16378 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1949.6	28.3
10°-20°	3139.8	45.5
20°-30°	1356.8	19.7
30°-40°	309.2	4.5
40°-50°	106.2	1.5
50°-60°	25.9	0.4
60°-70°	6.7	0.1
70°-80°	0.7	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°	6446.2	93.5
0°-40°	6755.4	98.0
0°-60°	6887.5	99.9
0°-90°	6895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22171	22171	22171	22171	22171	
5°	21452	21432	21427	21472	21453	1951
15°	11755	11613	11692	11654	11633	3148
25°	2763	2867	3115	2794	2706	1322
35°	464	474	444	441	372	315
45°	122	151	151	151	123	87
55°	20	21	37	22	21	19
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22170.7	22170.7	22170.7	22170.7	22170.7
2.5°	22023.8	22008.5	22017.2	22028.1	22032.5
5°	21452.3	21431.6	21427.3	21471.9	21453.4
7.5°	20299.6	20270.2	20225.6	20326.8	20421.5
10°	18368.6	18335.9	18239.0	18286.9	18364.2
12.5°	15517.8	15412.2	15410.0	15562.4	15541.7
15°	11754.8	11613.3	11691.7	11653.6	11632.9
17.5°	7904.7	7850.3	7954.8	7923.2	7787.2
20°	5686.4	5700.5	5899.7	5799.6	5678.7
22.5°	4149.4	4200.5	4436.8	4178.8	4084.1
25°	2762.6	2867.1	3115.3	2794.2	2706.0
27.5°	1699.2	1747.1	1998.5	1677.4	1629.5
30°	1056.9	1033.0	1151.6	988.4	920.9
32.5°	693.4	662.9	701.0	629.2	574.7
35°	463.7	473.5	444.1	440.8	372.3
37.5°	289.5	333.1	293.9	313.5	239.5
40°	187.2	241.6	207.9	229.7	176.3
42.5°	153.5	186.1	170.9	181.8	156.7
45°	121.9	151.3	151.3	151.3	123.0
47.5°	67.5	101.2	129.5	103.4	71.8
50°	38.1	51.2	100.1	53.3	40.3
52.5°	26.1	29.4	68.6	30.5	27.2
55°	19.6	20.7	37.0	21.8	20.7
57.5°	15.2	16.3	19.6	16.3	15.2
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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