

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: P755360

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755360
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: LD4D90BD010-EU4DR3070959030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9276.8 lumens
Efficiency: N/A
Efficacy: 93.8 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

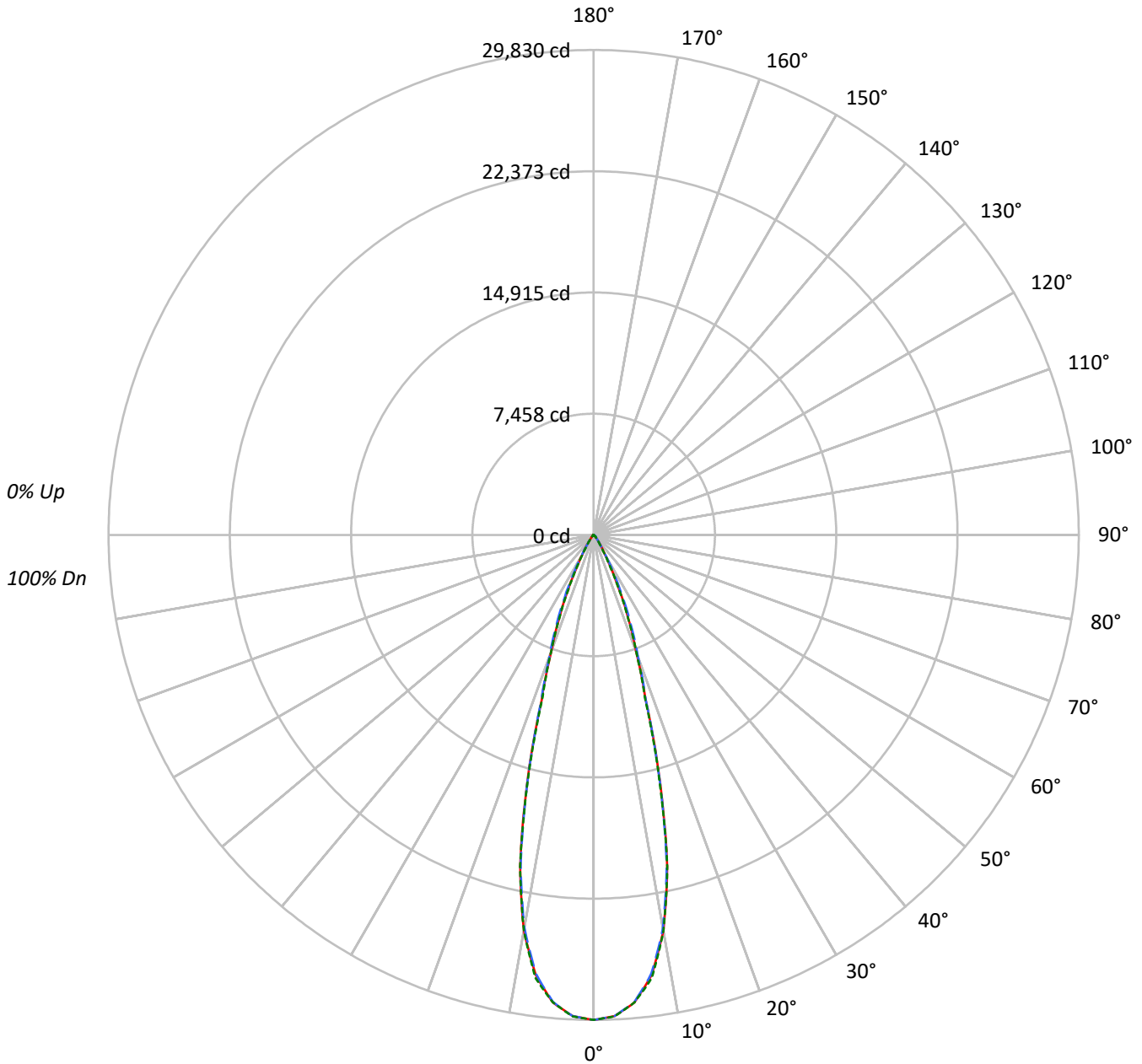
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2283251	2283251	2283251
5°	2217703	2215114	2217811
10°	1920868	1907321	1920410
15°	1253269	1246541	1240273
20°	623194	646572	622355
25°	313924	353999	307488
30°	125692	136952	109509
35°	58299	55832	46805
40°	25170	27948	23711
45°	17753	22039	17915
50°	6109	16040	6454
55°	3523	6646	3710
60°	2465	2909	2465
65°	1594	1594	1594
70°	985	649	985
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 22039 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2623.0	28.3
10°-20°	4224.4	45.5
20°-30°	1825.5	19.7
30°-40°	416.1	4.5
40°-50°	142.9	1.5
50°-60°	34.9	0.4
60°-70°	9.1	0.1
70°-80°	1.0	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°	8673.0	93.5
0°-40°	9089.1	98.0
0°-60°	9266.8	99.9
0°-90°	9276.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9276.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29830	29830	29830	29830	29830	
5°	28863	28835	28829	28889	28864	2625
15°	15815	15625	15730	15679	15651	4235
25°	3717	3858	4192	3759	3641	1779
35°	624	637	598	593	501	423
45°	164	204	204	204	166	116
55°	26	28	50	29	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	29829.5	29829.5	29829.5	29829.5	29829.5
2.5°	29631.8	29611.3	29623.0	29637.6	29643.5
5°	28862.9	28835.1	28829.2	28889.2	28864.3
7.5°	27311.9	27272.4	27212.4	27348.6	27476.0
10°	24713.9	24669.9	24539.6	24604.0	24708.0
12.5°	20878.3	20736.2	20733.3	20938.3	20910.5
15°	15815.4	15625.0	15730.5	15679.2	15651.4
17.5°	10635.4	10562.2	10702.8	10660.3	10477.2
20°	7650.7	7669.7	7937.7	7803.0	7640.4
22.5°	5582.8	5651.6	5969.4	5622.3	5494.9
25°	3717.0	3857.6	4191.5	3759.4	3640.8
27.5°	2286.1	2350.6	2688.9	2256.8	2192.4
30°	1422.1	1389.8	1549.5	1329.8	1239.0
32.5°	932.9	891.9	943.2	846.5	773.3
35°	623.9	637.1	597.5	593.1	500.9
37.5°	389.6	448.1	395.4	421.8	322.2
40°	251.9	325.1	279.7	309.0	237.3
42.5°	206.5	250.4	229.9	244.6	210.9
45°	164.0	203.6	203.6	203.6	165.5
47.5°	90.8	136.2	174.3	139.1	96.7
50°	51.3	68.8	134.7	71.8	54.2
52.5°	35.1	39.5	92.3	41.0	36.6
55°	26.4	27.8	49.8	29.3	27.8
57.5°	20.5	22.0	26.4	22.0	20.5
60°	16.1	16.1	19.0	17.6	16.1
62.5°	11.7	11.7	13.2	11.7	11.7
65°	8.8	8.8	8.8	8.8	8.8
67.5°	4.4	5.9	5.9	5.9	5.9
70°	4.4	2.9	2.9	2.9	4.4
72.5°	2.9	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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