

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: P792318

Luminaire Tested: LER6D40BD010-EC6DR3040509035-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D40BD010-EC6DR3040509035-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4420.3 lumens
Efficiency: N/A
Efficacy: 125.6 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

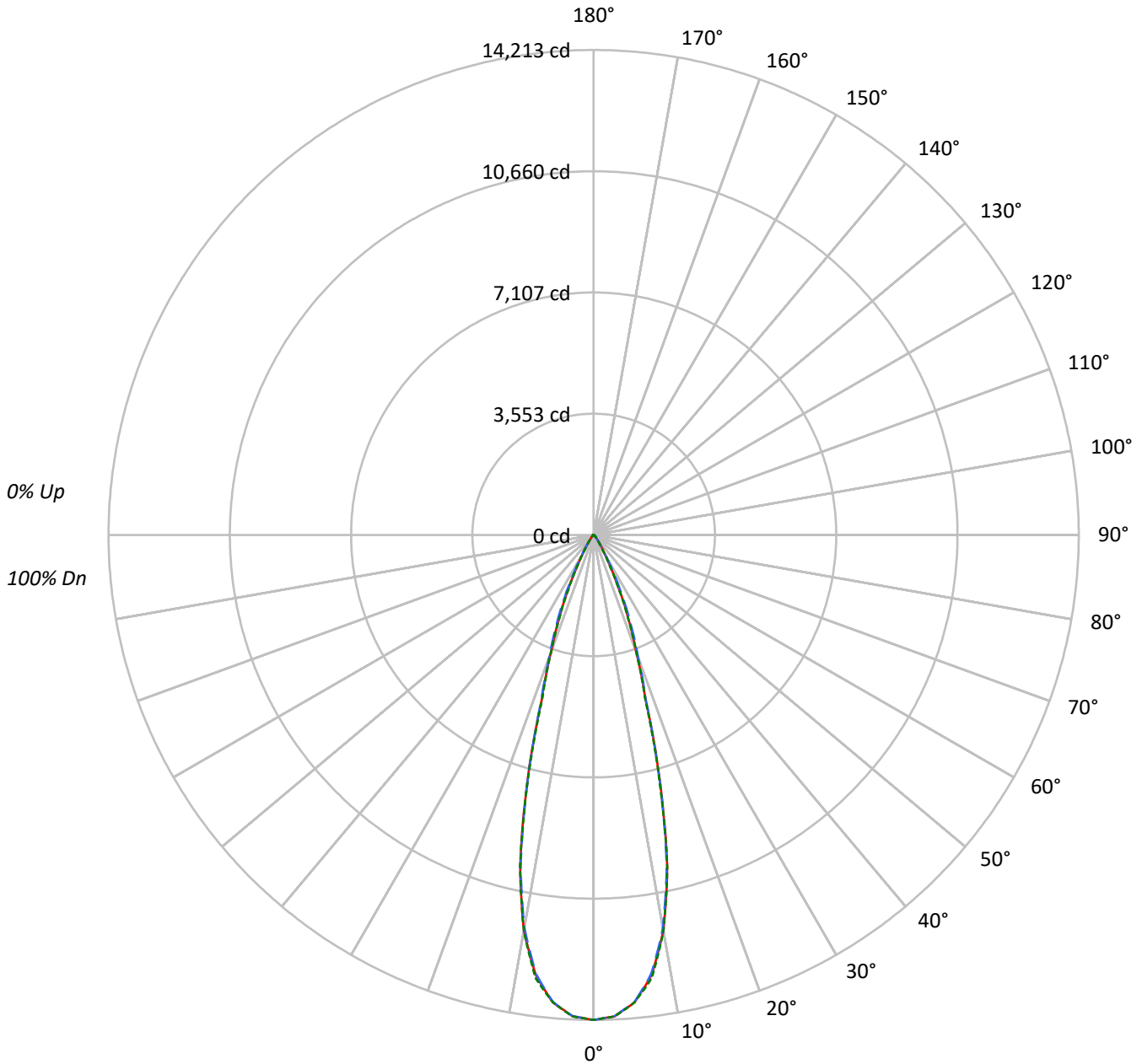
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1087934	1087934	1087934
5°	1056699	1055470	1056753
10°	915265	908806	915047
15°	597164	593954	590967
20°	296939	308082	296540
25°	149581	168676	146515
30°	59889	65254	52182
35°	27780	26603	22305
40°	11990	13319	11291
45°	8465	10500	8541
50°	2906	7645	3072
55°	1681	3163	1775
60°	1179	1393	1179
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10500 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1249.8	28.3
10°-20°	2012.9	45.5
20°-30°	869.8	19.7
30°-40°	198.2	4.5
40°-50°	68.1	1.5
50°-60°	16.6	0.4
60°-70°	4.3	0.1
70°-80°	0.5	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°	4132.5	93.5
0°-40°	4330.8	98.0
0°-60°	4415.5	99.9
0°-90°	4420.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4420.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14213	14213	14213	14213	14213	
5°	13753	13739	13737	13765	13753	1251
15°	7536	7445	7495	7471	7458	2018
25°	1771	1838	1997	1791	1735	848
35°	297	304	285	283	239	202
45°	78	97	97	97	79	55
55°	13	13	24	14	13	12
65°	4	4	4	4	4	4
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°	14213.3	14213.3	14213.3	14213.3	14213.3
2.5°	14119.1	14109.3	14114.9	14121.9	14124.6
5°	13752.7	13739.4	13736.7	13765.3	13753.4
7.5°	13013.7	12994.9	12966.3	13031.2	13091.9
10°	11775.8	11754.8	11692.7	11723.4	11773.0
12.5°	9948.2	9880.5	9879.1	9976.8	9963.5
15°	7535.8	7445.1	7495.3	7470.9	7457.6
17.5°	5067.6	5032.7	5099.7	5079.5	4992.2
20°	3645.4	3654.5	3782.2	3718.0	3640.5
22.5°	2660.1	2692.9	2844.3	2678.9	2618.2
25°	1771.1	1838.1	1997.2	1791.3	1734.8
27.5°	1089.3	1120.0	1281.2	1075.3	1044.6
30°	677.6	662.2	738.3	633.6	590.4
32.5°	444.5	425.0	449.4	403.3	368.5
35°	297.3	303.6	284.7	282.6	238.7
37.5°	185.6	213.5	188.4	201.0	153.5
40°	120.0	154.9	133.3	147.2	113.0
42.5°	98.4	119.3	109.6	116.5	100.5
45°	78.2	97.0	97.0	97.0	78.9
47.5°	43.3	64.9	83.0	66.3	46.1
50°	24.4	32.8	64.2	34.2	25.8
52.5°	16.7	18.8	44.0	19.5	17.4
55°	12.6	13.3	23.7	14.0	13.3
57.5°	9.8	10.5	12.6	10.5	9.8
60°	7.7	7.7	9.1	8.4	7.7
62.5°	5.6	5.6	6.3	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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