

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: P792803

Luminaire Tested: LER6D45BD010-EC6DR3040509040-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792803
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: LER6D45BD010-EC6DR3040509040-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.1 lumens
Efficiency: N/A
Efficacy: 129.2 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

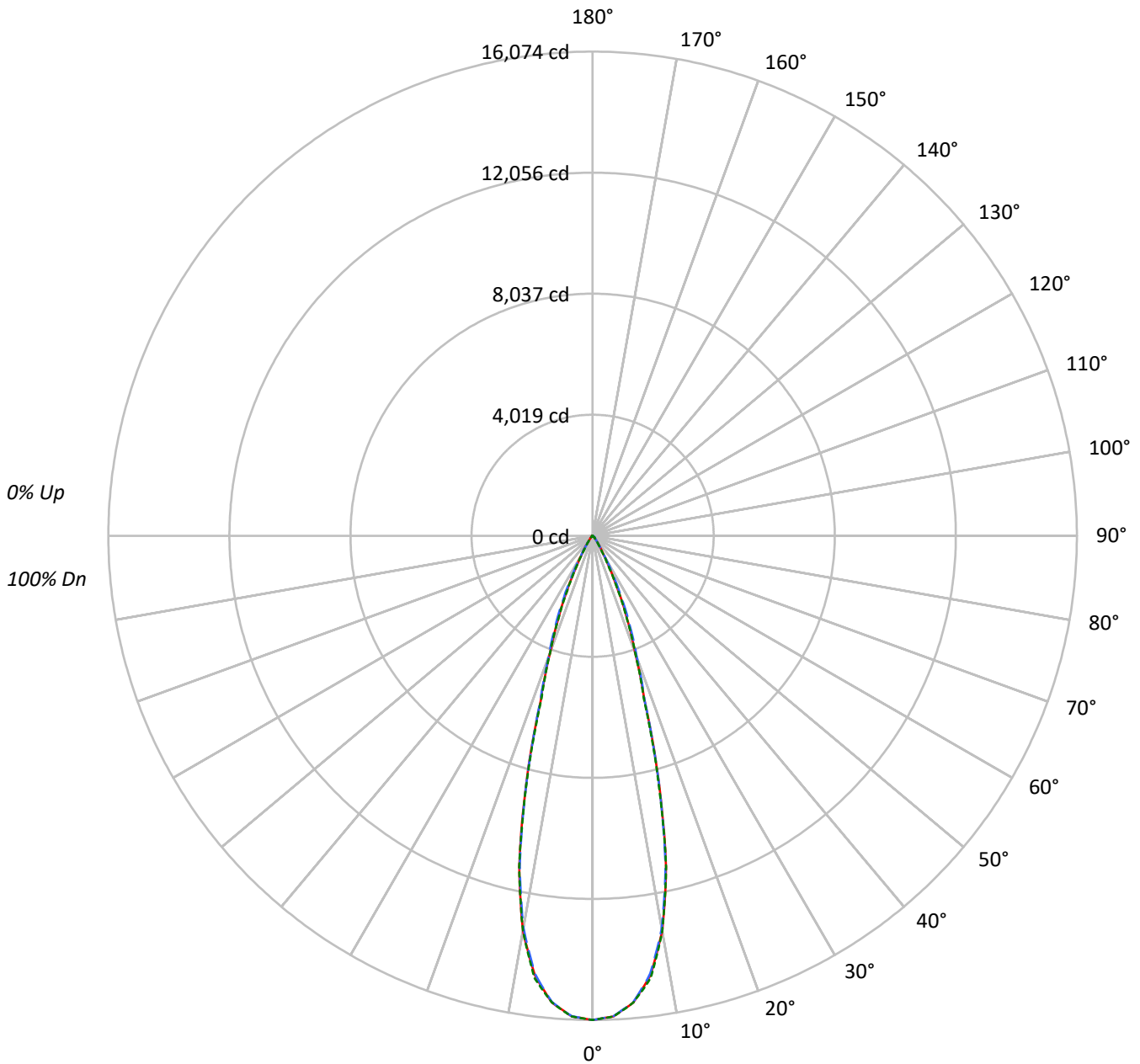
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1230397	1230397	1230397
5°	1195081	1193682	1195134
10°	1035115	1027817	1034874
15°	675361	671740	668356
20°	335826	348427	335378
25°	169166	190761	165703
30°	67729	73801	59014
35°	31415	30088	25220
40°	13559	15058	12780
45°	9569	11875	9656
50°	3287	8645	3477
55°	1895	3576	2002
60°	1332	1577	1332
65°	851	851	851
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1413.5	28.3
10°-20°	2276.5	45.5
20°-30°	983.7	19.7
30°-40°	224.2	4.5
40°-50°	77.0	1.5
50°-60°	18.8	0.4
60°-70°	4.9	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°	4673.7	93.5
0°-40°	4897.9	98.0
0°-60°	4993.7	99.9
0°-90°	4999.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4999.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16074	16074	16074	16074	16074	
5°	15554	15539	15536	15568	15554	1415
15°	8523	8420	8477	8449	8434	2282
25°	2003	2079	2259	2026	1962	959
35°	336	343	322	320	270	228
45°	88	110	110	110	89	63
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
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°	16074.5	16074.5	16074.5	16074.5	16074.5
2.5°	15968.0	15956.9	15963.3	15971.1	15974.3
5°	15553.7	15538.7	15535.5	15567.9	15554.4
7.5°	14717.9	14696.6	14664.2	14737.6	14806.3
10°	13317.8	13294.2	13223.9	13258.7	13314.7
12.5°	11250.9	11174.4	11172.8	11283.3	11268.3
15°	8522.6	8420.0	8476.9	8449.2	8434.2
17.5°	5731.2	5691.7	5767.5	5744.6	5646.0
20°	4122.8	4133.1	4277.5	4204.9	4117.3
22.5°	3008.5	3045.5	3216.8	3029.8	2961.1
25°	2003.0	2078.8	2258.7	2025.9	1962.0
27.5°	1231.9	1266.7	1449.0	1216.2	1181.4
30°	766.3	749.0	835.0	716.6	667.7
32.5°	502.7	480.6	508.2	456.2	416.7
35°	336.2	343.3	322.0	319.6	269.9
37.5°	209.9	241.5	213.1	227.3	173.6
40°	135.7	175.2	150.7	166.5	127.9
42.5°	111.3	135.0	123.9	131.8	113.6
45°	88.4	109.7	109.7	109.7	89.2
47.5°	48.9	73.4	93.9	75.0	52.1
50°	27.6	37.1	72.6	38.7	29.2
52.5°	18.9	21.3	49.7	22.1	19.7
55°	14.2	15.0	26.8	15.8	15.0
57.5°	11.0	11.8	14.2	11.8	11.0
60°	8.7	8.7	10.3	9.5	8.7
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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