

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: P787695

Luminaire Tested: LER6D05D010-EC6DR300210IC9024-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P787695
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: LER6D05D010-EC6DR300210IC9024-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 791.1 lumens
Efficiency: N/A
Efficacy: 105.5 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

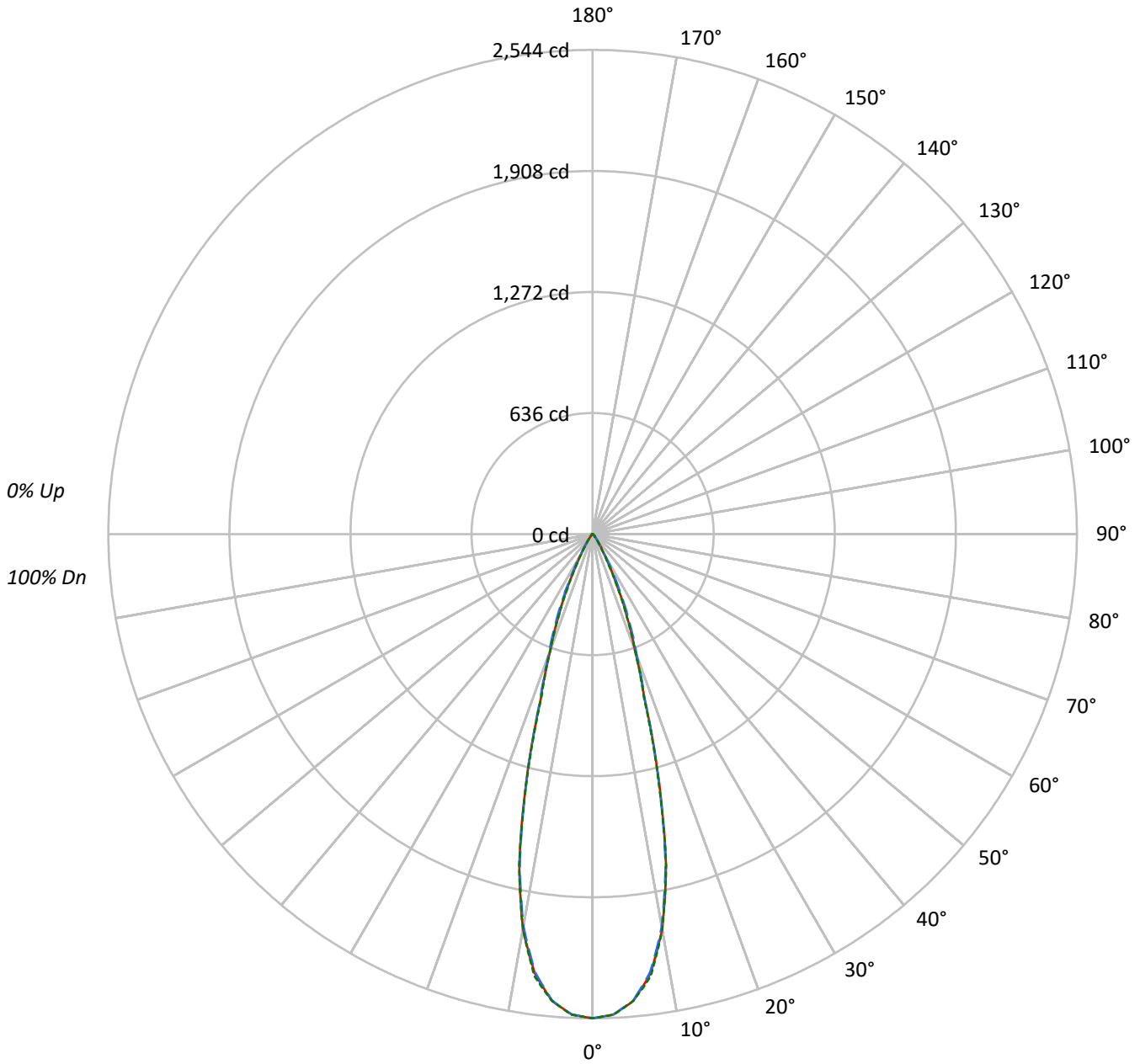
Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	87	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°	194711	194711	194711
5°	189116	188901	189131
10°	163804	162653	163765
15°	106876	106297	105766
20°	53142	55137	53077
25°	26773	30185	26224
30°	10721	11676	9342
35°	4971	4766	3990
40°	2148	2388	2018
45°	1515	1884	1526
50°	524	1369	548
55°	294	560	320
60°	214	245	214
65°	127	127	127
70°	90	45	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	28.3
10°-20°	360.3	45.5
20°-30°	155.7	19.7
30°-40°	35.5	4.5
40°-50°	12.2	1.5
50°-60°	3.0	0.4
60°-70°	0.8	0.1
70°-80°	0.1	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°	739.6	93.5
0°-40°	775.1	98.0
0°-60°	790.3	99.9
0°-90°	791.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2544	2544	2544	2544	2544	
5°	2461	2459	2458	2464	2462	224
15°	1349	1332	1341	1337	1335	361
25°	317	329	357	321	310	152
35°	53	54	51	51	43	36
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2543.8	2543.8	2543.8	2543.8	2543.8
2.5°	2526.9	2525.1	2526.1	2527.4	2527.9
5°	2461.3	2459.0	2458.5	2463.6	2461.5
7.5°	2329.1	2325.7	2320.6	2332.2	2343.1
10°	2107.5	2103.8	2092.7	2098.2	2107.0
12.5°	1780.4	1768.3	1768.1	1785.6	1783.2
15°	1348.7	1332.5	1341.4	1337.1	1334.7
17.5°	907.0	900.7	912.7	909.1	893.5
20°	652.4	654.0	676.9	665.4	651.6
22.5°	476.1	482.0	509.1	479.5	468.6
25°	317.0	329.0	357.4	320.6	310.5
27.5°	195.0	200.4	229.3	192.5	187.0
30°	121.3	118.5	132.1	113.4	105.7
32.5°	79.6	76.1	80.4	72.2	65.9
35°	53.2	54.3	51.0	50.6	42.7
37.5°	33.2	38.2	33.7	36.0	27.5
40°	21.5	27.7	23.9	26.4	20.2
42.5°	17.6	21.4	19.6	20.9	18.0
45°	14.0	17.4	17.4	17.4	14.1
47.5°	7.7	11.6	14.9	11.9	8.2
50°	4.4	5.9	11.5	6.1	4.6
52.5°	3.0	3.4	7.9	3.5	3.1
55°	2.2	2.4	4.2	2.5	2.4
57.5°	1.7	1.9	2.2	1.9	1.7
60°	1.4	1.4	1.6	1.5	1.4
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.2	0.2	0.2	0.4
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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