

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: P769505

Luminaire Tested: LD6D65D010-EU6DR3055659027-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P769505  
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: LD6D65D010-EU6DR3055659027-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6043.1 lumens  
Efficiency: N/A  
Efficacy: 83.0 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

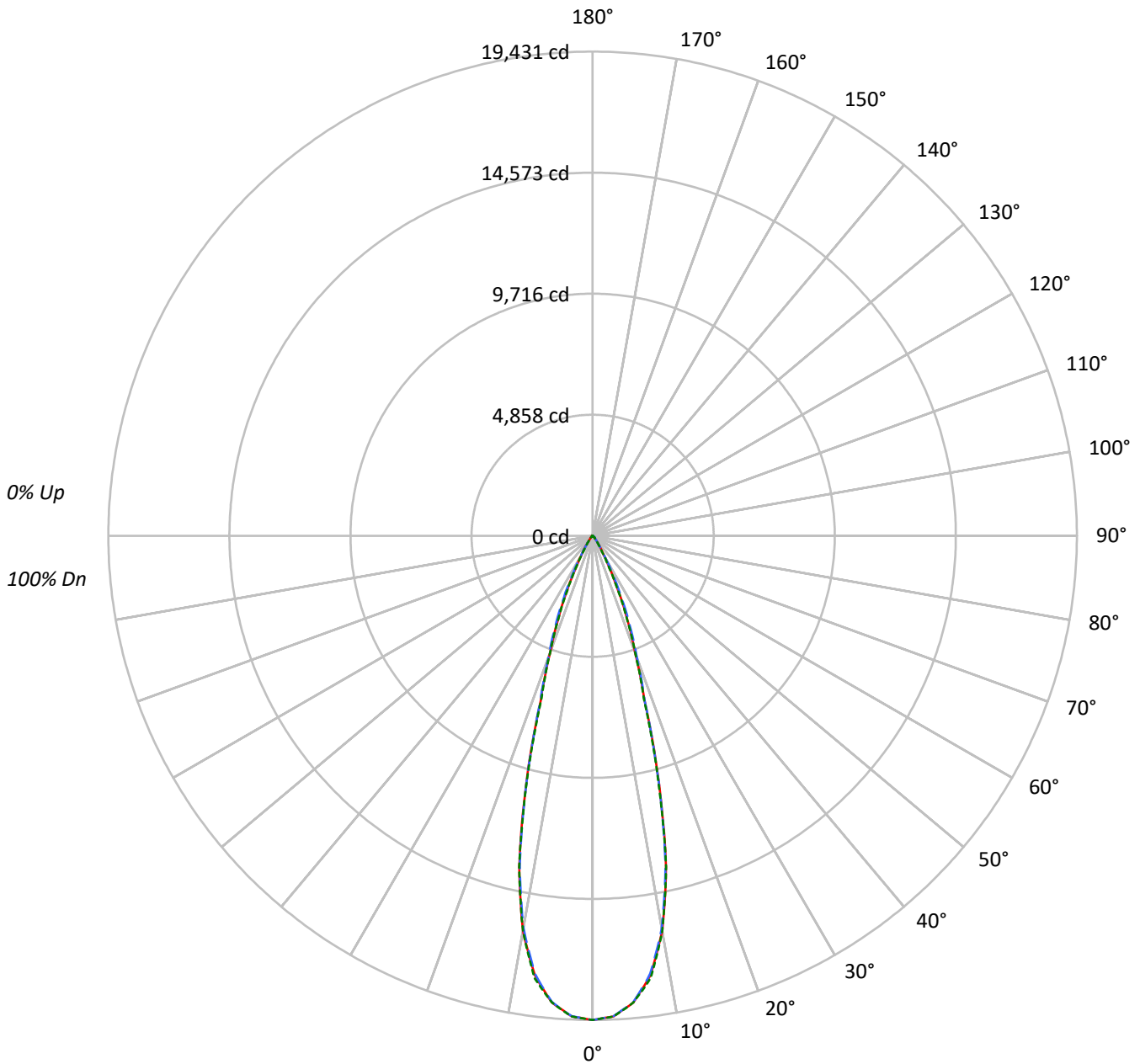
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1487338	1487338	1487338
5°	1444643	1442961	1444720
10°	1251282	1242452	1250987
15°	816399	812017	807928
20°	405959	421192	405414
25°	204494	230599	200305
30°	81871	89207	71335
35°	37975	36368	30490
40°	16397	18205	15448
45°	11561	14354	11669
50°	3977	10455	4204
55°	2295	4324	2415
60°	1607	1898	1607
65°	1032	1032	1032
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14354 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1708.7	28.3
10°-20°	2751.9	45.5
20°-30°	1189.2	19.7
30°-40°	271.0	4.5
40°-50°	93.1	1.5
50°-60°	22.7	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5649.7	93.5
0°-40°	5920.8	98.0
0°-60°	6036.5	99.9
0°-90°	6043.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6043.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19431	19431	19431	19431	19431	
5°	18802	18784	18780	18819	18803	1710
15°	10302	10178	10247	10214	10196	2759
25°	2421	2513	2730	2449	2372	1159
35°	406	415	389	386	326	276
45°	107	133	133	133	108	76
55°	17	18	32	19	18	17
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°	19431.3	19431.3	19431.3	19431.3	19431.3
2.5°	19302.6	19289.2	19296.8	19306.4	19310.2
5°	18801.7	18783.6	18779.8	18818.9	18802.7
7.5°	17791.4	17765.6	17726.5	17815.2	17898.2
10°	16099.0	16070.4	15985.4	16027.4	16095.2
12.5°	13600.4	13507.9	13506.0	13639.5	13621.4
15°	10302.4	10178.4	10247.1	10213.7	10195.5
17.5°	6928.0	6880.3	6971.9	6944.3	6825.0
20°	4983.8	4996.2	5170.8	5083.0	4977.1
22.5°	3636.7	3681.5	3888.6	3662.5	3579.5
25°	2421.3	2512.9	2730.4	2449.0	2371.7
27.5°	1489.2	1531.2	1751.6	1470.1	1428.2
30°	926.3	905.4	1009.3	866.2	807.1
32.5°	607.7	581.0	614.4	551.4	503.7
35°	406.4	415.0	389.2	386.4	326.3
37.5°	253.8	291.9	257.6	274.8	209.9
40°	164.1	211.8	182.2	201.3	154.6
42.5°	134.5	163.1	149.8	159.3	137.4
45°	106.8	132.6	132.6	132.6	107.8
47.5°	59.1	88.7	113.5	90.6	63.0
50°	33.4	44.8	87.8	46.7	35.3
52.5°	22.9	25.8	60.1	26.7	23.9
55°	17.2	18.1	32.4	19.1	18.1
57.5°	13.4	14.3	17.2	14.3	13.4
60°	10.5	10.5	12.4	11.4	10.5
62.5°	7.6	7.6	8.6	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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