

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: P791844

Luminaire Tested: LER6D35BD010-EC6DR3020359040-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P791844  
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: LER6D35BD010-EC6DR3020359040-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4134.9 lumens  
Efficiency: N/A  
Efficacy: 134.2 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

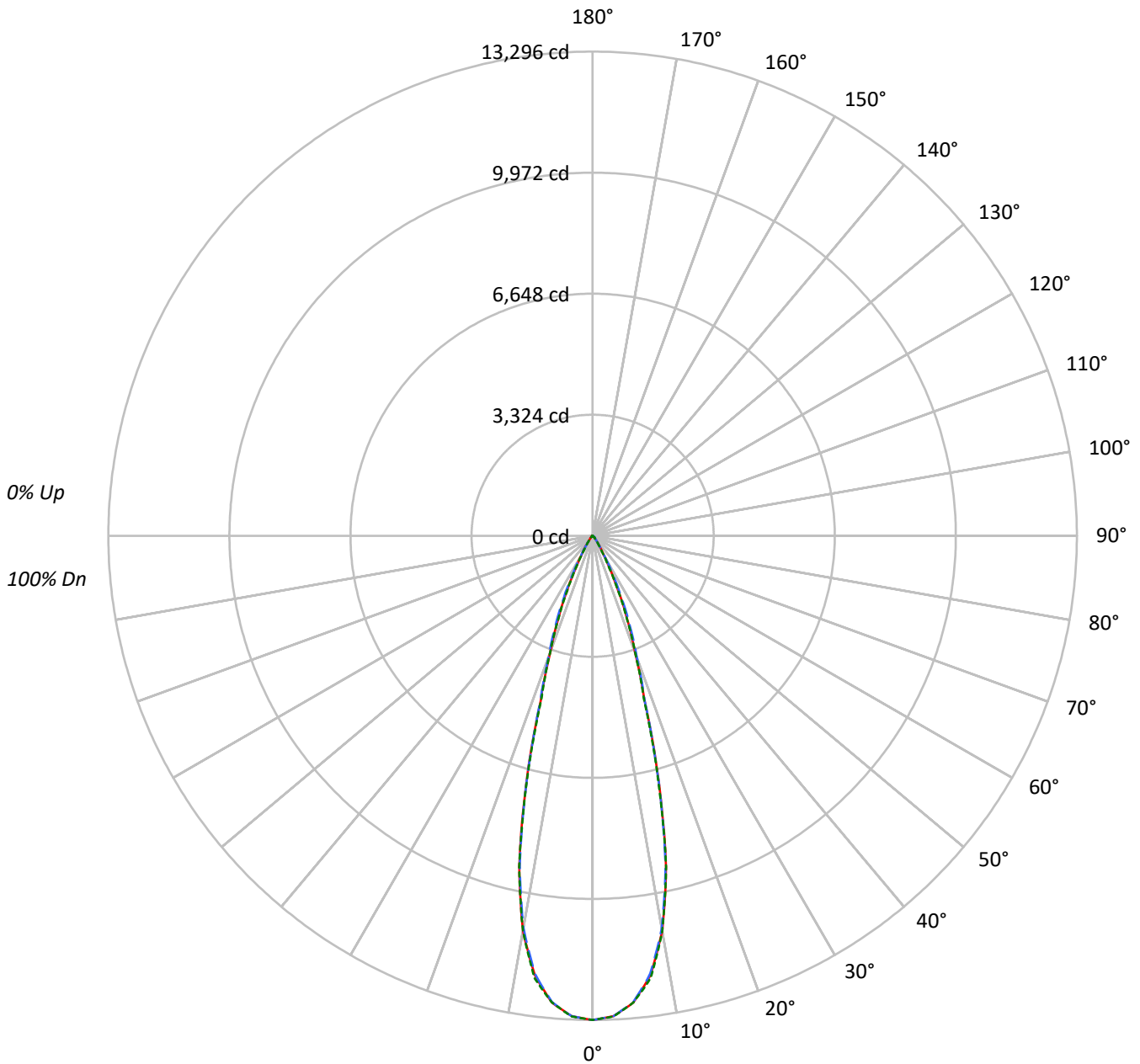
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1017690	1017690	1017690
5°	988477	987324	988531
10°	856171	850132	855969
15°	558612	555608	552819
20°	277772	288191	277398
25°	139919	157781	137056
30°	56018	61038	48806
35°	25986	24884	20856
40°	11221	12460	10562
45°	7913	9818	7989
50°	2715	7157	2882
55°	1561	2963	1655
60°	1102	1301	1102
65°	706	706	706
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9818 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1169.1	28.3
10°-20°	1882.9	45.5
20°-30°	813.7	19.7
30°-40°	185.4	4.5
40°-50°	63.7	1.5
50°-60°	15.6	0.4
60°-70°	4.0	0.1
70°-80°	0.4	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°	3865.7	93.5
0°-40°	4051.2	98.0
0°-60°	4130.4	99.9
0°-90°	4134.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4134.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13296	13296	13296	13296	13296	
5°	12865	12852	12850	12877	12866	1170
15°	7049	6964	7011	6989	6976	1888
25°	1657	1719	1868	1676	1623	793
35°	278	284	266	264	223	189
45°	73	91	91	91	74	52
55°	12	12	22	13	12	11
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°	13295.6	13295.6	13295.6	13295.6	13295.6
2.5°	13207.5	13198.4	13203.6	13210.1	13212.7
5°	12864.8	12852.4	12849.8	12876.6	12865.5
7.5°	12173.5	12155.9	12129.1	12189.8	12246.6
10°	11015.5	10995.9	10937.8	10966.5	11012.9
12.5°	9305.9	9242.6	9241.3	9332.7	9320.3
15°	7049.3	6964.4	7011.4	6988.6	6976.2
17.5°	4740.4	4707.8	4770.4	4751.5	4669.9
20°	3410.1	3418.6	3538.0	3478.0	3405.5
22.5°	2488.4	2519.0	2660.7	2506.0	2449.2
25°	1656.7	1719.4	1868.2	1675.7	1622.8
27.5°	1019.0	1047.7	1198.5	1005.9	977.2
30°	633.8	619.5	690.6	592.7	552.2
32.5°	415.8	397.5	420.4	377.3	344.7
35°	278.1	284.0	266.3	264.4	223.2
37.5°	173.6	199.7	176.2	188.0	143.6
40°	112.3	144.9	124.7	137.7	105.7
42.5°	92.0	111.6	102.5	109.0	94.0
45°	73.1	90.7	90.7	90.7	73.8
47.5°	40.5	60.7	77.7	62.0	43.1
50°	22.8	30.7	60.1	32.0	24.2
52.5°	15.7	17.6	41.1	18.3	16.3
55°	11.7	12.4	22.2	13.1	12.4
57.5°	9.1	9.8	11.7	9.8	9.1
60°	7.2	7.2	8.5	7.8	7.2
62.5°	5.2	5.2	5.9	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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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