

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P791843

Luminaire Tested: LER6D35BD010-EC6DR3020359040-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P791843  
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-EC6DR3020359040-6LBS1B  
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: 3876.7 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

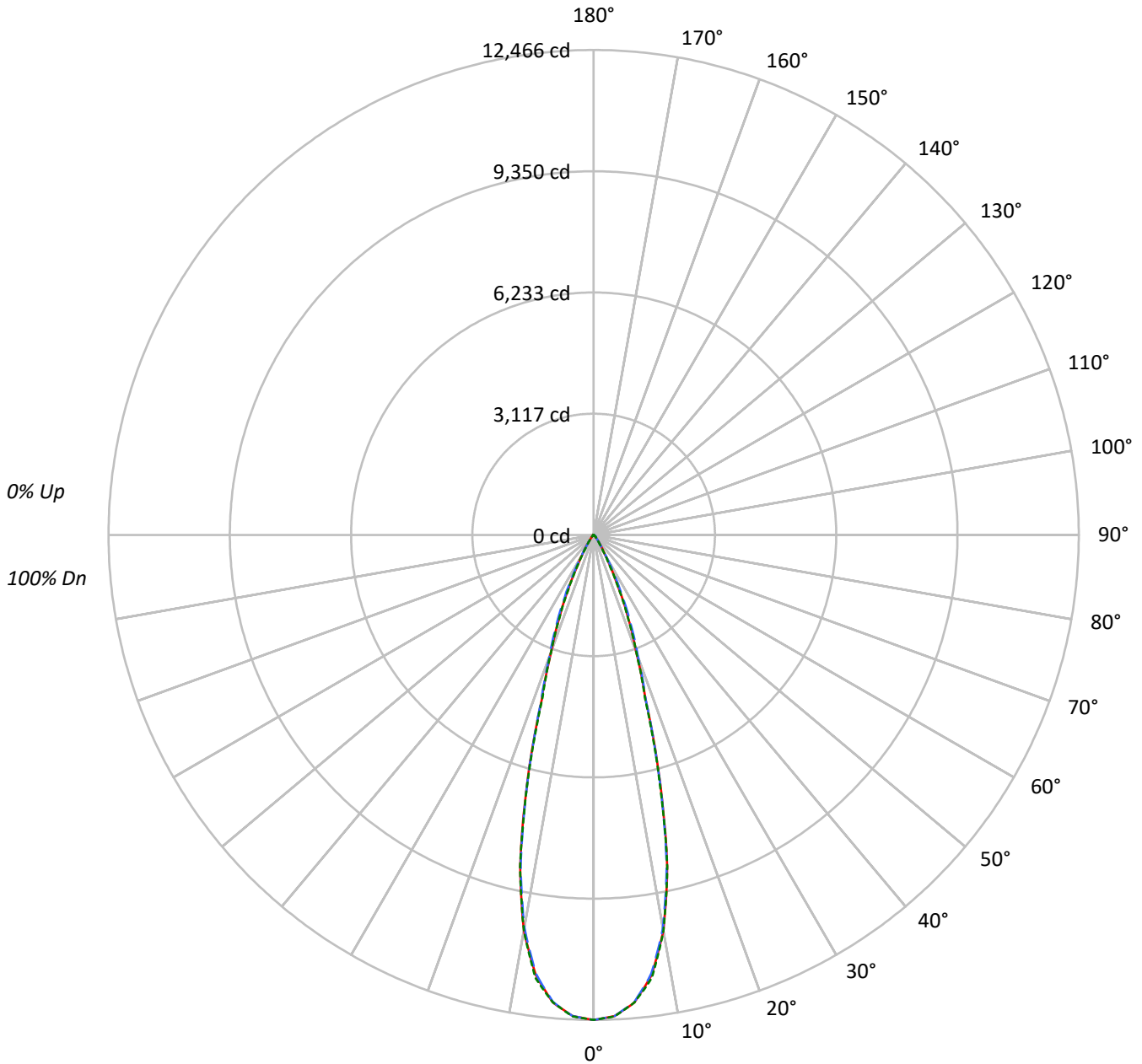
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96					96			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92					92			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89					89			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85					85			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82					82			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79					79			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77					77			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74					74			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72					72			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69					69			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	954167	954167	954167
5°	926778	925694	926824
10°	802728	797069	802541
15°	523737	520923	518308
20°	260430	270205	260080
25°	131186	147934	128500
30°	52527	57229	45766
35°	24360	23333	19557
40°	10522	11681	9902
45°	7415	9212	7491
50°	2548	6704	2691
55°	1468	2776	1548
60°	1026	1225	1026
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9212 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1096.2	28.3
10°-20°	1765.4	45.5
20°-30°	762.9	19.7
30°-40°	173.9	4.5
40°-50°	59.7	1.5
50°-60°	14.6	0.4
60°-70°	3.8	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°	3624.4	93.5
0°-40°	3798.3	98.0
0°-60°	3872.6	99.9
0°-90°	3876.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12466	12466	12466	12466	12466	
5°	12062	12050	12048	12073	12062	1097
15°	6609	6530	6574	6552	6541	1770
25°	1553	1612	1752	1571	1522	744
35°	261	266	250	248	209	177
45°	68	85	85	85	69	49
55°	11	12	21	12	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°	12465.7	12465.7	12465.7	12465.7	12465.7
2.5°	12383.1	12374.5	12379.4	12385.5	12388.0
5°	12061.8	12050.1	12047.7	12072.8	12062.4
7.5°	11413.6	11397.1	11372.0	11428.9	11482.2
10°	10327.9	10309.5	10255.1	10282.0	10325.5
12.5°	8725.0	8665.6	8664.4	8750.1	8738.5
15°	6609.2	6529.7	6573.7	6552.3	6540.7
17.5°	4444.5	4413.9	4472.7	4454.9	4378.4
20°	3197.2	3205.2	3317.2	3260.9	3192.9
22.5°	2333.0	2361.8	2494.6	2349.6	2296.3
25°	1553.3	1612.1	1751.6	1571.1	1521.5
27.5°	955.4	982.3	1123.7	943.1	916.2
30°	594.3	580.8	647.5	555.7	517.8
32.5°	389.9	372.7	394.1	353.7	323.1
35°	260.7	266.2	249.7	247.9	209.3
37.5°	162.8	187.3	165.2	176.3	134.6
40°	105.3	135.9	116.9	129.1	99.1
42.5°	86.3	104.7	96.1	102.2	88.1
45°	68.5	85.1	85.1	85.1	69.2
47.5°	37.9	56.9	72.8	58.1	40.4
50°	21.4	28.8	56.3	30.0	22.6
52.5°	14.7	16.5	38.6	17.1	15.3
55°	11.0	11.6	20.8	12.2	11.6
57.5°	8.6	9.2	11.0	9.2	8.6
60°	6.7	6.7	8.0	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)