

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: P791852

Luminaire Tested: LER6D35BD010-EC6DR3020359050-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P791852  
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-EC6DR3020359050-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4164.4 lumens  
Efficiency: N/A  
Efficacy: 135.2 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

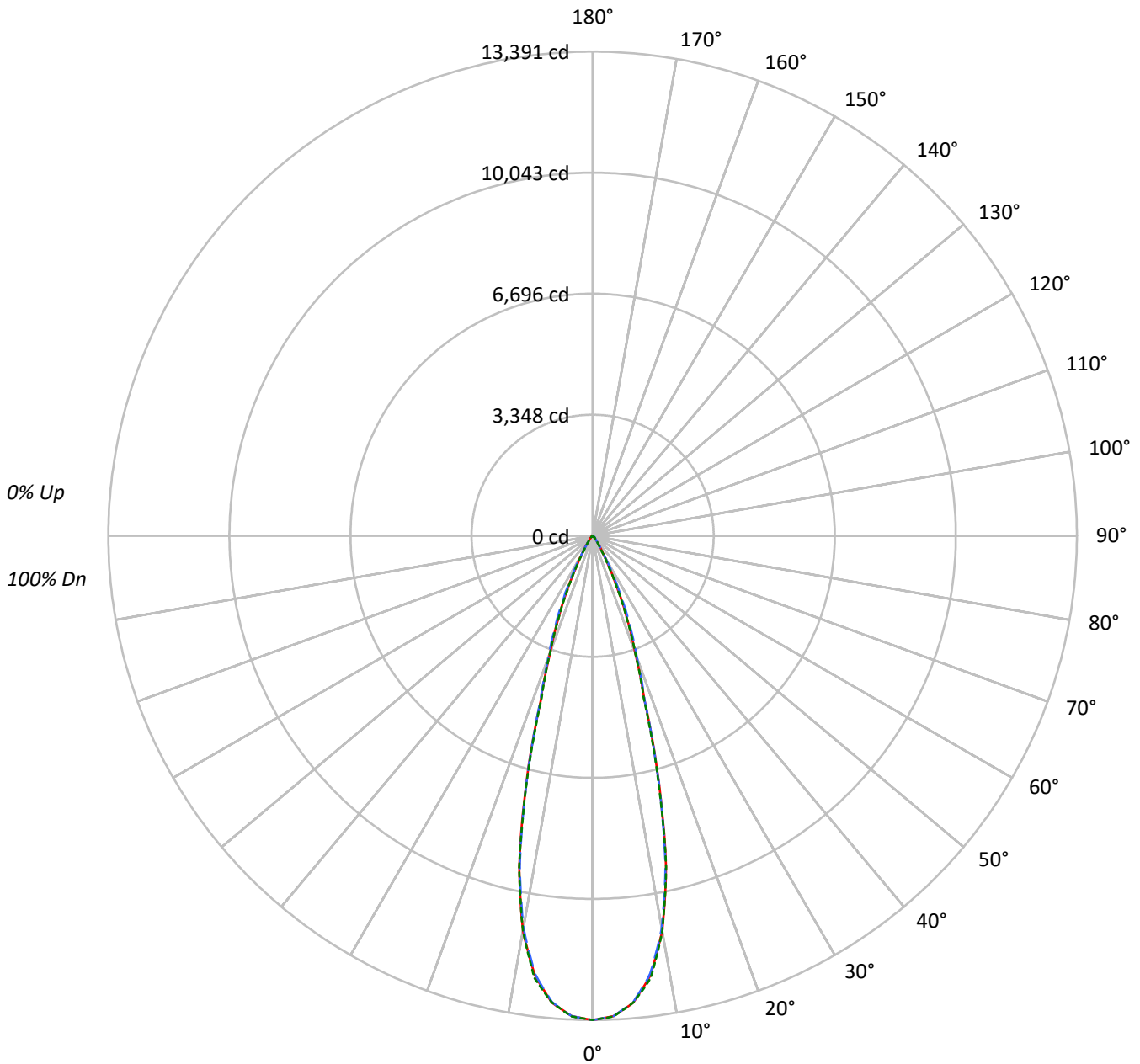
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1024962	1024962	1024962
5°	995538	994378	995584
10°	862288	856202	862086
15°	562598	559578	556765
20°	279752	290251	279377
25°	140924	158913	138035
30°	56425	61480	49160
35°	26173	25061	21006
40°	11301	12550	10642
45°	7967	9894	8043
50°	2739	7204	2894
55°	1575	2989	1668
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: 9894 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1177.5	28.3
10°-20°	1896.4	45.5
20°-30°	819.5	19.7
30°-40°	186.8	4.5
40°-50°	64.1	1.5
50°-60°	15.7	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°	3893.4	93.5
0°-40°	4080.1	98.0
0°-60°	4159.9	99.9
0°-90°	4164.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4164.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13391	13391	13391	13391	13391	
5°	12957	12944	12942	12968	12957	1178
15°	7100	7014	7062	7038	7026	1901
25°	1669	1732	1882	1688	1634	799
35°	280	286	268	266	225	190
45°	74	91	91	91	74	52
55°	12	12	22	13	12	12
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13390.6	13390.6	13390.6	13390.6	13390.6
2.5°	13301.8	13292.6	13297.9	13304.5	13307.1
5°	12956.7	12944.2	12941.6	12968.5	12957.3
7.5°	12260.5	12242.7	12215.8	12276.9	12334.1
10°	11094.2	11074.5	11015.9	11044.9	11091.6
12.5°	9372.4	9308.6	9307.3	9399.3	9386.8
15°	7099.6	7014.2	7061.5	7038.5	7026.0
17.5°	4774.3	4741.4	4804.5	4785.5	4703.3
20°	3434.4	3443.0	3563.3	3502.8	3429.8
22.5°	2506.1	2537.0	2679.7	2523.9	2466.7
25°	1668.6	1731.7	1881.6	1687.6	1634.4
27.5°	1026.3	1055.2	1207.0	1013.1	984.2
30°	638.4	623.9	695.6	596.9	556.2
32.5°	418.8	400.4	423.4	380.0	347.1
35°	280.1	286.0	268.2	266.3	224.8
37.5°	174.9	201.2	177.5	189.3	144.6
40°	113.1	146.0	125.6	138.7	106.5
42.5°	92.7	112.4	103.2	109.8	94.7
45°	73.6	91.4	91.4	91.4	74.3
47.5°	40.8	61.1	78.2	62.5	43.4
50°	23.0	30.9	60.5	32.2	24.3
52.5°	15.8	17.8	41.4	18.4	16.4
55°	11.8	12.5	22.4	13.1	12.5
57.5°	9.2	9.9	11.8	9.9	9.2
60°	7.2	7.2	8.5	7.9	7.2
62.5°	5.3	5.3	5.9	5.3	5.3
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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(END OF REPORT)