

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247766

Luminaire Tested: **LD8B150D010 ER8B150827 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150827 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16069.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

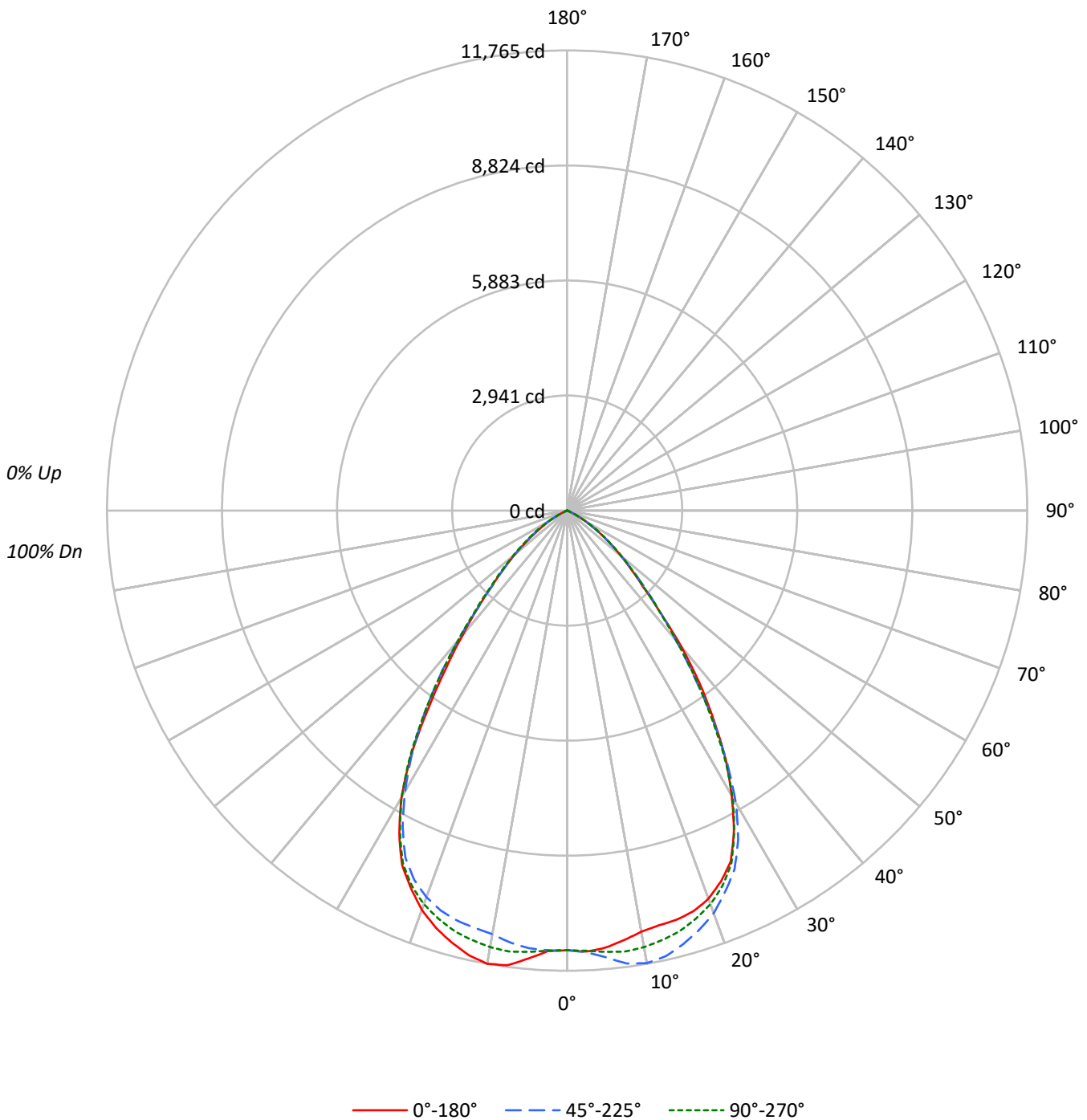
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

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

	0°	90°	180°
0°	346557	346557	346557
5°	347271	350552	355954
10°	342268	354868	368380
15°	345722	355248	364739
20°	346602	351436	356391
25°	336771	338206	339993
30°	299524	301261	301528
35°	246001	240704	233428
40°	182354	175105	167328
45°	118556	121460	117535
50°	85598	87080	83348
55°	57041	58708	53310
60°	31996	34543	30257
65°	10062	12528	10543
70°	2624	3047	2452
75°	1680	1227	2014
80°	337	994	0
85°	3644	991	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1083.0	6.7
10°-20°	3136.6	19.5
20°-30°	4499.1	28.0
30°-40°	3970.2	24.7
40°-50°	2198.2	13.7
50°-60°	968.7	6.0
60°-70°	195.7	1.2
70°-80°	14.7	0.1
80°-90°	2.7	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°	8718.8	54.3
0°-40°	12689.0	79.0
0°-60°	15855.9	98.7
0°-90°	16069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11239	11239	11239	11239	11239	
5°	11219	11466	11325	11233	11499	###
15°	10830	11474	11128	10856	11425	3055
25°	9898	10120	9940	9791	9993	4471
35°	6535	6441	6394	6399	6201	4053
45°	2719	2834	2785	2681	2695	2214
55°	1061	1056	1092	1036	992	972
65°	138	148	172	156	144	190
75°	14	14	10	11	17	14
85°	10	6	3	8	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11238.6	11238.6	11238.6	11238.6	11238.6	11238.6	11238.6	11238.6	11238.6
2.5°	11285.5	11238.6	11300.5	11262.0	11264.8	11206.7	11252.6	11296.7	11272.3
5°	11218.9	11262.0	11465.6	11460.0	11324.9	11149.4	11232.9	11433.7	11499.4
7.5°	11081.0	11236.7	11678.5	11718.9	11371.8	11002.2	11138.2	11556.6	11723.6
10°	10930.9	11155.1	11748.9	11827.7	11333.3	10846.4	11000.3	11527.5	11764.8
12.5°	10858.6	11075.3	11667.3	11743.3	11245.1	10771.4	10927.1	11416.8	11637.3
15°	10829.5	10992.8	11474.0	11543.4	11127.9	10729.2	10855.8	11256.4	11425.2
17.5°	10741.4	10853.9	11234.8	11278.9	10942.1	10626.0	10725.4	11032.2	11179.5
20°	10562.2	10637.2	10957.1	10980.6	10709.5	10441.2	10518.1	10760.1	10860.5
22.5°	10266.7	10316.4	10552.8	10561.2	10383.9	10151.3	10215.1	10404.6	10442.1
25°	9898.0	9902.7	10120.3	10080.0	9940.2	9724.4	9791.1	9953.3	9992.7
27.5°	9234.8	9250.7	9471.2	9417.7	9252.6	9065.0	9106.2	9254.5	9293.9
30°	8412.0	8501.2	8628.7	8602.5	8460.8	8272.3	8280.7	8426.1	8468.3
32.5°	7547.1	7520.8	7586.5	7566.8	7493.6	7344.5	7394.2	7431.7	7442.0
35°	6534.9	6513.3	6441.1	6350.1	6394.2	6452.3	6398.8	6316.3	6200.9
37.5°	5562.1	5441.0	5300.3	5205.6	5362.2	5423.2	5370.7	5191.5	5098.6
40°	4530.1	4402.6	4326.6	4303.1	4350.0	4395.0	4335.9	4248.7	4156.8
42.5°	3493.5	3492.6	3511.3	3506.7	3474.8	3410.0	3363.1	3400.6	3385.6
45°	2718.6	2760.9	2834.0	2846.2	2785.2	2690.5	2681.1	2716.8	2695.2
47.5°	2213.0	2228.0	2254.3	2291.8	2257.1	2209.2	2184.9	2196.1	2176.4
50°	1784.3	1788.0	1800.2	1828.4	1815.2	1782.4	1759.0	1744.9	1737.4
52.5°	1401.5	1393.1	1402.5	1411.9	1429.7	1408.1	1388.4	1358.4	1334.9
55°	1061.0	1054.4	1056.3	1063.8	1092.0	1067.6	1035.7	1016.0	991.6
57.5°	770.2	748.6	753.3	778.6	804.9	794.6	766.4	734.5	704.5
60°	518.8	514.1	513.1	540.4	560.1	556.3	524.4	501.0	490.6
62.5°	306.8	303.9	311.5	323.6	347.1	330.2	308.6	296.4	292.7
65°	137.9	144.5	148.2	157.6	171.7	167.9	155.7	142.6	144.5
67.5°	60.0	46.0	51.6	58.2	54.4	57.2	50.7	53.5	51.6
70°	29.1	31.0	29.1	36.6	33.8	35.6	29.1	34.7	27.2
72.5°	20.6	17.8	22.5	26.3	22.5	26.3	23.5	17.8	14.1
75°	14.1	8.4	14.1	8.4	10.3	15.0	11.3	15.0	16.9
77.5°	1.9	6.6	2.8	3.8	1.9	4.7	4.7	2.8	8.4
80°	1.9	2.8	1.9	3.8	5.6	0.9	3.8	8.4	0.0
82.5°	6.6	0.0	0.9	0.0	0.9	1.9	0.0	1.9	0.0
85°	10.3	2.8	5.6	13.1	2.8	5.6	8.4	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)