

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: P247790

Luminaire Tested: **LD8B150D010 ER8B150940 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247790  
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 ER8B150940 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15256.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 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

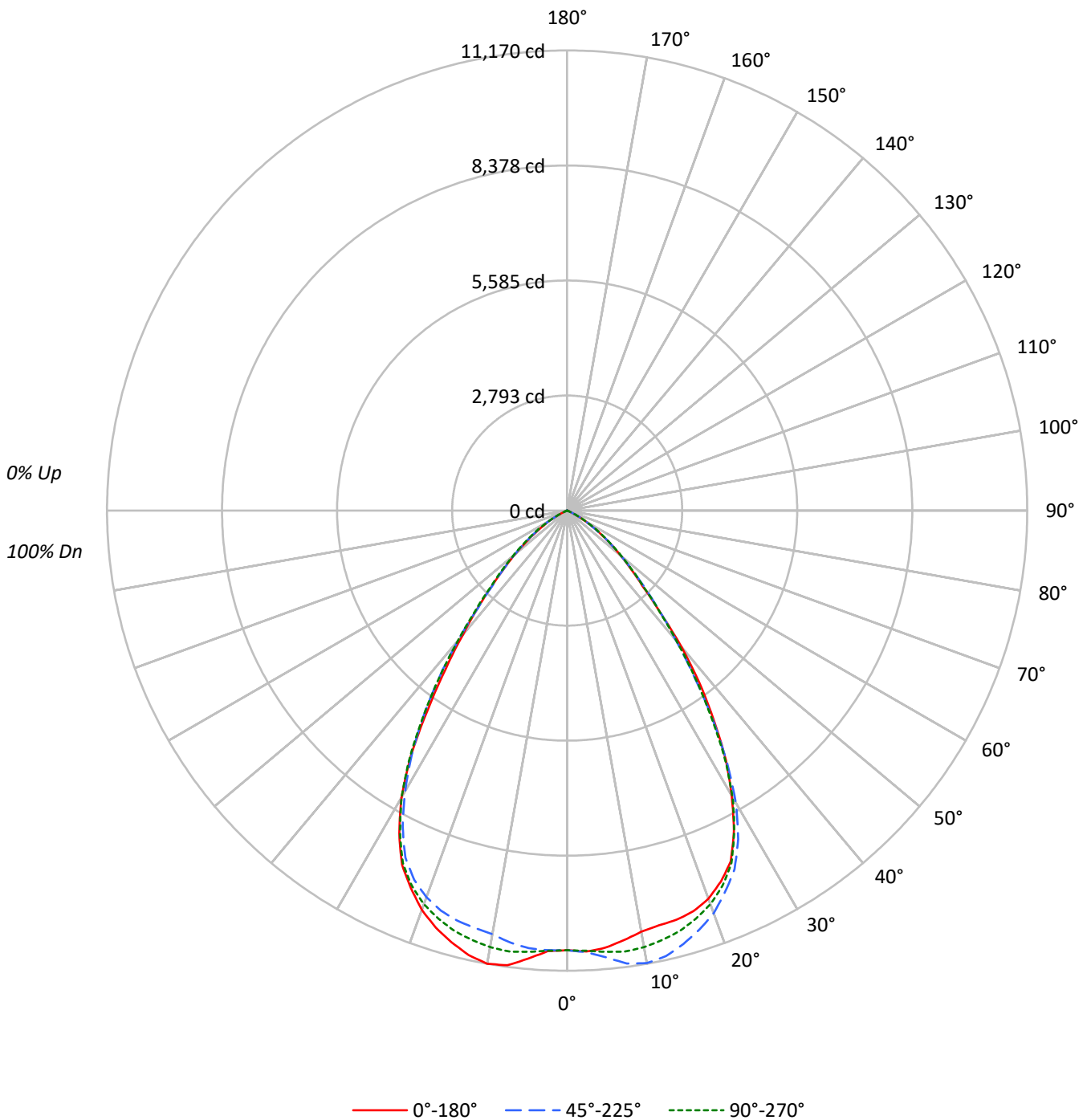
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	329023	329023	329023
5°	329698	332815	337945
10°	324950	336914	349743
15°	328231	337275	346287
20°	329065	333653	338359
25°	319731	321096	322794
30°	284369	286018	286274
35°	233552	228527	221619
40°	173128	166245	158862
45°	112560	115316	111587
50°	81266	82676	79131
55°	54154	55735	50611
60°	30374	32791	28727
65°	9551	11893	10011
70°	2488	2894	2326
75°	1597	1168	1906
80°	320	941	0
85°	3467	955	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1028.2	6.7
10°-20°	2977.9	19.5
20°-30°	4271.5	28.0
30°-40°	3769.3	24.7
40°-50°	2087.0	13.7
50°-60°	919.7	6.0
60°-70°	185.8	1.2
70°-80°	13.9	0.1
80°-90°	2.6	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°	8277.7	54.3
0°-40°	12047.0	79.0
0°-60°	15053.7	98.7
0°-90°	15256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10670	10670	10670	10670	10670	
5°	10651	10886	10752	10665	10918	###
15°	10282	10894	10565	10307	10847	2901
25°	9397	9608	9437	9296	9487	4245
35°	6204	6115	6071	6075	5887	3848
45°	2581	2691	2644	2546	2559	2102
55°	1007	1003	1037	983	941	923
65°	131	141	163	148	137	180
75°	13	13	10	11	16	13
85°	10	5	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°	10670.0	10670.0	10670.0	10670.0	10670.0	10670.0	10670.0	10670.0	10670.0
2.5°	10714.5	10670.0	10728.7	10692.2	10694.9	10639.7	10683.3	10725.2	10702.0
5°	10651.2	10692.2	10885.5	10880.1	10751.9	10585.3	10664.6	10855.2	10917.6
7.5°	10520.3	10668.2	11087.7	11126.0	10796.4	10445.5	10574.7	10971.9	11130.4
10°	10377.8	10590.7	11154.5	11229.3	10759.9	10297.7	10443.7	10944.3	11169.6
12.5°	10309.2	10515.0	11077.0	11149.1	10676.2	10226.4	10374.3	10839.2	11048.5
15°	10281.6	10436.6	10893.5	10959.4	10564.9	10186.3	10306.6	10686.9	10847.2
17.5°	10197.9	10304.8	10666.4	10708.3	10388.5	10088.4	10182.8	10474.0	10613.8
20°	10027.8	10099.0	10402.8	10425.0	10167.6	9912.9	9985.9	10215.7	10311.0
22.5°	9747.2	9794.4	10018.9	10026.9	9858.6	9637.7	9698.3	9878.2	9913.8
25°	9397.2	9401.7	9608.3	9570.0	9437.3	9232.4	9295.7	9449.8	9487.2
27.5°	8767.5	8782.7	8992.0	8941.2	8784.5	8606.3	8645.5	8786.2	8823.6
30°	7986.4	8071.0	8192.2	8167.2	8032.7	7853.7	7861.7	7999.8	8039.9
32.5°	7165.3	7140.3	7202.7	7184.0	7114.5	6972.9	7020.1	7055.7	7065.5
35°	6204.2	6183.8	6115.2	6028.8	6070.7	6125.9	6075.1	5996.7	5887.2
37.5°	5280.6	5165.8	5032.2	4942.2	5090.9	5148.8	5099.0	4928.8	4840.7
40°	4300.9	4179.8	4107.7	4085.4	4129.9	4172.7	4116.6	4033.7	3946.5
42.5°	3316.8	3315.9	3333.7	3329.2	3299.0	3237.5	3193.0	3228.6	3214.3
45°	2581.1	2621.2	2690.6	2702.2	2644.3	2554.4	2545.5	2579.3	2558.8
47.5°	2101.0	2115.3	2140.2	2175.9	2142.9	2097.5	2074.3	2085.0	2066.3
50°	1694.0	1697.6	1709.2	1735.9	1723.4	1692.2	1670.0	1656.6	1649.5
52.5°	1330.6	1322.6	1331.5	1340.4	1357.3	1336.9	1318.2	1289.7	1267.4
55°	1007.3	1001.1	1002.9	1010.0	1036.7	1013.6	983.3	964.6	941.4
57.5°	731.2	710.7	715.2	739.2	764.2	754.4	727.7	697.4	668.9
60°	492.5	488.1	487.2	513.0	531.7	528.2	497.9	475.6	465.8
62.5°	291.2	288.6	295.7	307.3	329.5	313.5	293.0	281.4	277.9
65°	130.9	137.2	140.7	149.6	163.0	159.4	147.8	135.4	137.2
67.5°	57.0	43.6	49.0	55.2	51.7	54.3	48.1	50.8	49.0
70°	27.6	29.4	27.6	34.7	32.1	33.8	27.6	33.0	25.8
72.5°	19.6	16.9	21.4	24.9	21.4	24.9	22.3	16.9	13.4
75°	13.4	8.0	13.4	8.0	9.8	14.3	10.7	14.3	16.0
77.5°	1.8	6.2	2.7	3.6	1.8	4.5	4.5	2.7	8.0
80°	1.8	2.7	1.8	3.6	5.3	0.9	3.6	8.0	0.0
82.5°	6.2	0.0	0.9	0.0	0.9	1.8	0.0	1.8	0.0
85°	9.8	2.7	5.3	12.5	2.7	5.3	8.0	3.6	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.7	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)