

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: P247940

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B1509727 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11327.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

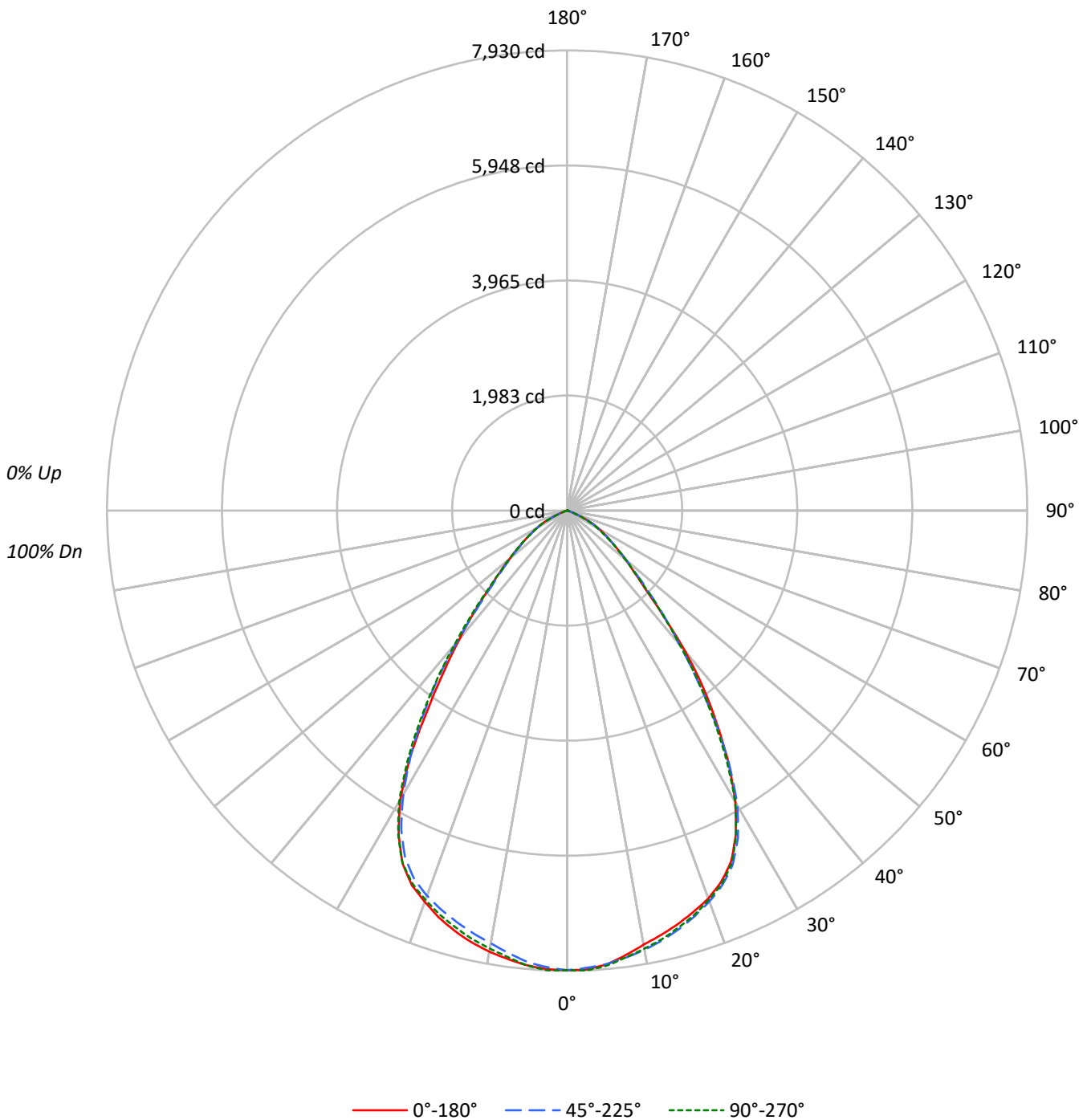
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	741.9	6.5
10°-20°	2091.6	18.5
20°-30°	3032.4	26.8
30°-40°	2725.8	24.1
40°-50°	1536.0	13.6
50°-60°	818.4	7.2
60°-70°	327.1	2.9
70°-80°	43.6	0.4
80°-90°	10.3	0.1
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°	5865.9	51.8
0°-40°	8591.7	75.9
0°-60°	10946.1	96.6
0°-90°	11327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7921	7921	7921	7921	7921	
5°	7850	7843	7872	7810	7868	741
15°	7376	7461	7435	7343	7497	2081
25°	6681	6743	6706	6603	6712	3032
35°	4512	4448	4412	4350	4191	2800
45°	1886	1989	1936	1844	1892	1549
55°	918	920	901	880	893	836
65°	353	336	312	303	315	349
75°	28	36	34	33	28	41
85°	1	8	4	12	3	4
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°	7920.8	7920.8	7920.8	7920.8	7920.8	7920.8	7920.8	7920.8	7920.8
2.5°	7915.2	7898.5	7886.0	7909.6	7930.5	7873.4	7877.6	7902.7	7911.0
5°	7849.8	7834.4	7842.8	7862.3	7872.0	7800.3	7810.1	7852.5	7867.9
7.5°	7727.2	7739.1	7769.0	7794.1	7764.8	7680.6	7694.5	7767.6	7797.5
10°	7594.2	7622.1	7684.7	7714.0	7664.6	7556.6	7572.6	7670.8	7718.2
12.5°	7488.4	7519.0	7584.5	7606.8	7562.9	7446.6	7463.3	7565.0	7621.4
15°	7375.6	7403.5	7461.2	7479.3	7434.8	7327.6	7342.9	7440.4	7496.8
17.5°	7248.2	7272.6	7324.1	7340.8	7301.8	7188.3	7212.7	7303.2	7352.6
20°	7113.8	7131.2	7167.4	7177.2	7139.6	7053.9	7065.1	7143.0	7175.1
22.5°	6930.7	6953.0	6986.4	6996.8	6962.0	6868.0	6878.5	6955.1	6989.9
25°	6680.7	6713.4	6743.4	6756.6	6706.5	6581.9	6602.7	6668.2	6712.1
27.5°	6292.9	6319.4	6372.3	6373.7	6304.7	6175.2	6192.6	6276.9	6288.0
30°	5794.4	5818.7	5865.4	5854.9	5788.8	5634.9	5648.8	5731.0	5749.8
32.5°	5183.7	5192.8	5205.3	5201.8	5121.1	5048.7	5020.1	5029.9	5036.8
35°	4512.5	4528.5	4447.8	4403.9	4411.6	4417.8	4350.3	4250.0	4190.9
37.5°	3862.2	3785.6	3686.1	3651.9	3715.3	3736.2	3674.9	3525.2	3470.2
40°	3155.5	3087.3	3008.6	3014.9	3013.5	3028.1	2950.8	2895.8	2877.0
42.5°	2428.6	2429.3	2480.8	2445.3	2438.3	2336.7	2306.7	2337.4	2370.8
45°	1886.2	1948.9	1988.6	1978.1	1935.6	1844.4	1844.4	1898.0	1891.8
47.5°	1552.7	1575.0	1604.9	1602.8	1572.2	1505.3	1516.5	1553.4	1572.2
50°	1312.5	1322.2	1336.1	1324.3	1305.5	1263.7	1263.0	1288.8	1299.9
52.5°	1098.0	1103.6	1100.1	1093.8	1083.4	1061.1	1054.2	1075.7	1078.5
55°	917.7	928.1	920.5	903.1	901.0	880.8	880.1	897.5	893.3
57.5°	764.5	754.1	743.6	729.0	726.9	720.6	727.6	730.4	726.2
60°	636.4	637.1	616.9	603.0	601.6	592.5	602.3	609.9	609.9
62.5°	512.5	509.7	497.1	476.2	479.7	476.2	480.4	481.8	475.6
65°	353.0	353.7	336.3	311.2	311.9	309.1	302.9	312.6	315.4
67.5°	188.0	186.6	173.4	164.3	160.8	162.2	169.2	171.3	163.6
70°	102.4	98.9	101.7	91.9	94.0	90.5	94.0	99.6	97.5
72.5°	52.2	55.7	50.1	46.0	51.5	50.8	59.2	54.3	48.7
75°	27.9	29.9	35.5	32.7	34.1	32.7	33.4	31.3	27.9
77.5°	20.2	22.3	25.8	25.1	24.4	23.0	25.8	28.5	23.0
80°	11.8	14.6	16.0	18.8	16.7	18.8	21.6	17.4	13.9
82.5°	7.7	11.8	11.8	12.5	18.1	11.8	19.5	17.4	13.9
85°	1.4	2.1	8.4	4.9	4.2	12.5	11.8	9.1	2.8
87.5°	0.0	4.9	11.1	5.6	9.1	8.4	11.8	12.5	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)