

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: P247799

Luminaire Tested: **LD8B150D010 ER8B1509730 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247799  
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 ER8B1509730 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12618.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

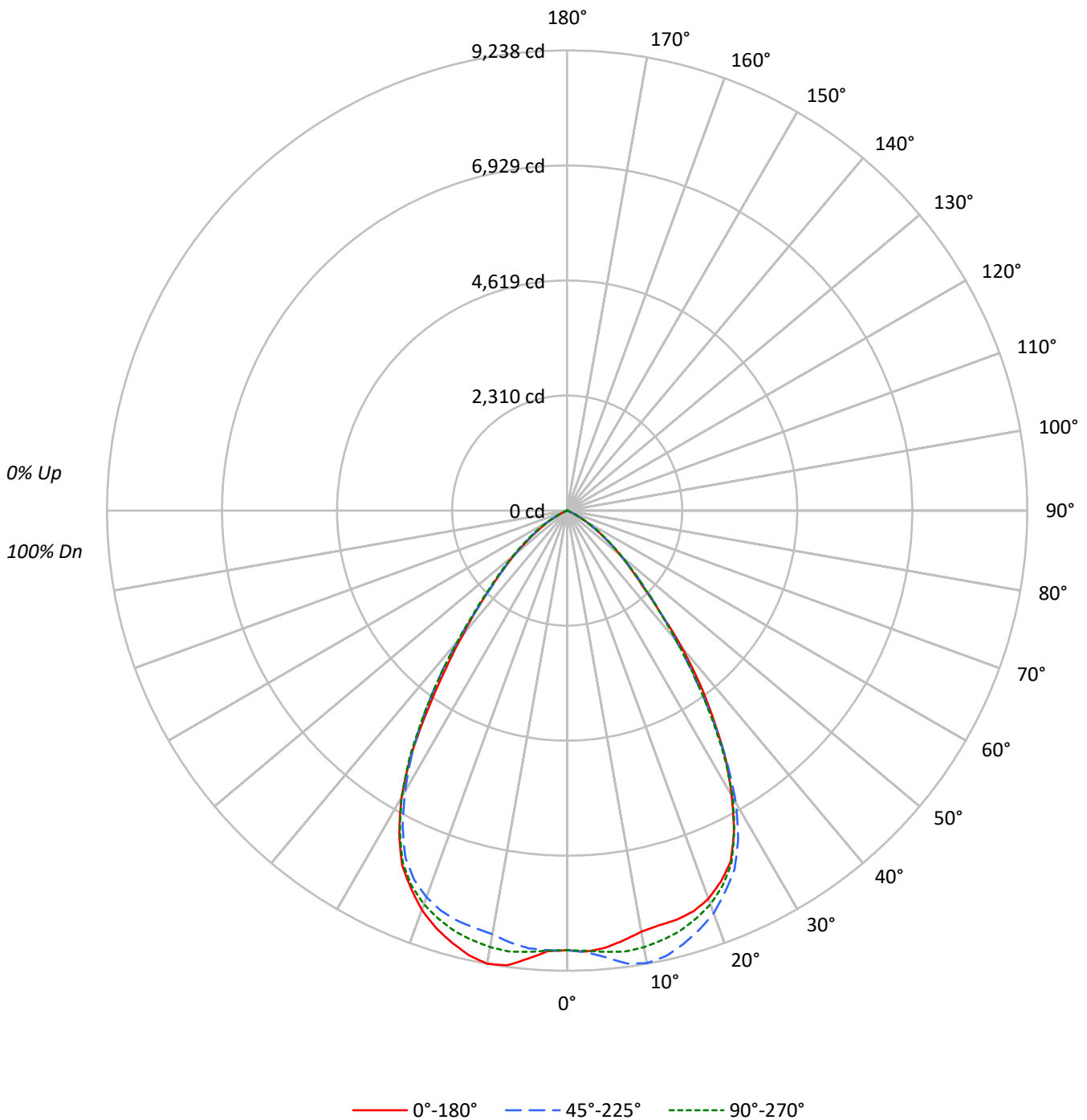
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

**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°	850.4	6.7
10°-20°	2463.0	19.5
20°-30°	3532.9	28.0
30°-40°	3117.5	24.7
40°-50°	1726.1	13.7
50°-60°	760.7	6.0
60°-70°	153.7	1.2
70°-80°	11.5	0.1
80°-90°	2.1	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°	6846.3	54.3
0°-40°	9963.9	79.0
0°-60°	12450.7	98.7
0°-90°	12618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12618.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8825	8825	8825	8825	8825	
5°	8810	9003	8893	8820	9030	833
15°	8504	9010	8738	8524	8972	2399
25°	7772	7947	7805	7688	7847	3511
35°	5131	5058	5021	5025	4869	3183
45°	2135	2225	2187	2105	2116	1739
55°	833	830	857	813	779	764
65°	108	116	135	122	113	149
75°	11	11	8	9	13	11
85°	8	4	2	7	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°	8825.0	8825.0	8825.0	8825.0	8825.0	8825.0	8825.0	8825.0	8825.0
2.5°	8861.8	8825.0	8873.6	8843.4	8845.6	8799.9	8836.0	8870.6	8851.5
5°	8809.5	8843.4	9003.2	8998.8	8892.7	8755.0	8820.5	8978.2	9029.7
7.5°	8701.2	8823.5	9170.4	9202.1	8929.6	8639.3	8746.1	9074.7	9205.8
10°	8583.3	8759.4	9225.7	9287.6	8899.4	8517.0	8637.8	9051.8	9238.2
12.5°	8526.6	8696.8	9161.6	9221.3	8830.1	8458.1	8580.4	8964.9	9138.0
15°	8503.8	8632.0	9009.8	9064.4	8738.0	8425.0	8524.4	8838.9	8971.5
17.5°	8434.5	8522.9	8822.0	8856.6	8592.2	8343.9	8422.0	8662.9	8778.5
20°	8293.8	8352.8	8604.0	8622.4	8409.5	8198.8	8259.2	8449.3	8528.1
22.5°	8061.8	8100.8	8286.5	8293.1	8153.9	7971.2	8021.3	8170.1	8199.5
25°	7772.3	7776.0	7946.9	7915.2	7805.4	7636.0	7688.3	7815.8	7846.7
27.5°	7251.5	7264.0	7437.1	7395.1	7265.5	7118.2	7150.6	7267.0	7297.9
30°	6605.5	6675.4	6775.6	6755.0	6643.8	6495.7	6502.3	6616.5	6649.7
32.5°	5926.3	5905.6	5957.2	5941.7	5884.3	5767.2	5806.2	5835.7	5843.8
35°	5131.4	5114.5	5057.8	4986.3	5020.9	5066.6	5024.6	4959.8	4869.2
37.5°	4367.5	4272.5	4162.0	4087.6	4210.6	4258.5	4217.3	4076.6	4003.6
40°	3557.2	3457.1	3397.4	3379.0	3415.8	3451.2	3404.8	3336.2	3264.1
42.5°	2743.2	2742.5	2757.2	2753.6	2728.5	2677.7	2640.9	2670.3	2658.5
45°	2134.8	2167.9	2225.4	2235.0	2187.1	2112.7	2105.3	2133.3	2116.4
47.5°	1737.7	1749.5	1770.1	1799.6	1772.4	1734.8	1715.6	1724.5	1709.0
50°	1401.1	1404.0	1413.6	1435.7	1425.4	1399.6	1381.2	1370.2	1364.3
52.5°	1100.5	1093.9	1101.3	1108.6	1122.6	1105.7	1090.2	1066.7	1048.2
55°	833.1	828.0	829.5	835.4	857.4	838.3	813.3	797.8	778.6
57.5°	604.8	587.8	591.5	611.4	632.0	623.9	601.8	576.8	553.2
60°	407.4	403.7	402.9	424.3	439.8	436.8	411.8	393.4	385.3
62.5°	240.9	238.7	244.6	254.1	272.6	259.3	242.4	232.8	229.8
65°	108.3	113.4	116.4	123.8	134.8	131.9	122.3	112.0	113.4
67.5°	47.1	36.1	40.5	45.7	42.7	44.9	39.8	42.0	40.5
70°	22.8	24.3	22.8	28.7	26.5	28.0	22.8	27.3	21.4
72.5°	16.2	14.0	17.7	20.6	17.7	20.6	18.4	14.0	11.0
75°	11.0	6.6	11.0	6.6	8.1	11.8	8.8	11.8	13.3
77.5°	1.5	5.2	2.2	2.9	1.5	3.7	3.7	2.2	6.6
80°	1.5	2.2	1.5	2.9	4.4	0.7	2.9	6.6	0.0
82.5°	5.2	0.0	0.7	0.0	0.7	1.5	0.0	1.5	0.0
85°	8.1	2.2	4.4	10.3	2.2	4.4	6.6	2.9	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.2	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)