

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: P247908

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B1759730 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15085.0 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

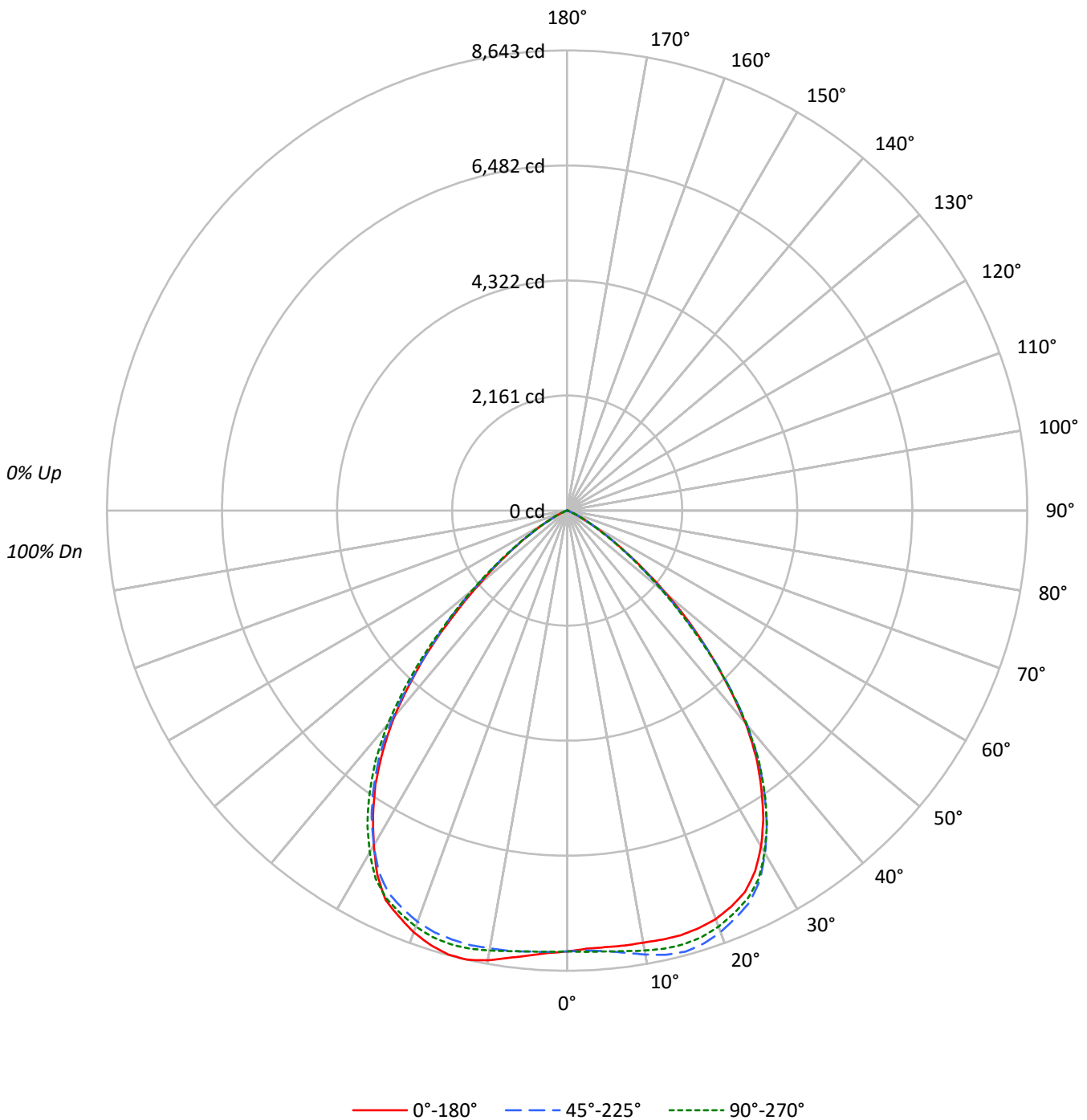
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

**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°	796.2	5.3
10°-20°	2383.9	15.8
20°-30°	3663.8	24.3
30°-40°	3963.6	26.3
40°-50°	2856.9	18.9
50°-60°	1159.7	7.7
60°-70°	231.6	1.5
70°-80°	23.2	0.2
80°-90°	6.2	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°	6843.9	45.4
0°-40°	10807.5	71.6
0°-60°	14824.0	98.3
0°-90°	15085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15085.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8279	8279	8279	8279	8279	
5°	8232	8302	8311	8314	8388	786
15°	8257	8577	8436	8342	8632	2333
25°	7904	8114	8033	7930	8072	3613
35°	6355	6448	6467	6335	6276	3946
45°	3777	3795	3746	3621	3603	2913
55°	1295	1255	1248	1206	1169	1215
65°	201	218	194	185	199	240
75°	18	22	20	19	20	24
85°	8	11	14	7	6	6
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°	8279.2	8279.2	8279.2	8279.2	8279.2	8279.2	8279.2	8279.2	8279.2
2.5°	8236.7	8289.1	8271.7	8249.2	8296.6	8287.5	8297.5	8301.6	8317.4
5°	8231.8	8290.8	8301.6	8277.5	8310.8	8295.0	8314.1	8349.9	8388.1
7.5°	8240.1	8329.1	8375.7	8361.5	8345.7	8291.6	8341.5	8423.9	8474.6
10°	8240.1	8358.2	8466.3	8465.5	8390.6	8290.0	8345.7	8487.9	8576.9
12.5°	8253.4	8398.1	8546.2	8556.1	8428.9	8301.6	8361.5	8529.5	8642.6
15°	8256.7	8398.9	8576.9	8581.9	8435.5	8285.8	8341.5	8522.0	8631.8
17.5°	8221.8	8359.0	8527.9	8545.3	8398.1	8245.9	8302.5	8463.8	8551.1
20°	8163.6	8286.7	8423.9	8453.0	8314.1	8169.4	8219.3	8358.2	8428.9
22.5°	8052.1	8164.4	8277.5	8299.1	8187.7	8061.3	8086.2	8194.3	8253.4
25°	7904.1	8015.5	8114.5	8126.1	8033.0	7919.9	7929.8	8012.2	8072.1
27.5°	7641.2	7746.9	7836.7	7850.8	7795.1	7674.5	7656.2	7695.3	7720.2
30°	7285.2	7357.6	7432.5	7477.4	7412.5	7312.7	7261.1	7281.9	7259.5
32.5°	6857.7	6931.7	6977.5	6991.6	6981.6	6894.3	6833.6	6781.2	6784.5
35°	6355.3	6422.7	6448.5	6474.3	6466.8	6398.6	6334.6	6285.5	6276.3
37.5°	5828.9	5873.8	5902.9	5922.8	5906.2	5863.0	5779.8	5694.9	5680.8
40°	5210.9	5279.1	5255.8	5265.8	5250.0	5195.1	5111.9	5063.7	5050.3
42.5°	4485.6	4545.5	4540.5	4543.8	4508.9	4434.0	4361.7	4335.0	4320.9
45°	3776.9	3806.1	3795.2	3760.3	3746.2	3699.6	3620.6	3569.8	3603.1
47.5°	3109.9	3099.9	3027.5	2999.3	2978.5	2985.1	2967.7	2878.7	2830.4
50°	2439.5	2413.7	2344.7	2302.3	2325.6	2343.9	2279.0	2225.7	2166.7
52.5°	1809.0	1814.0	1748.3	1701.7	1723.4	1726.7	1688.4	1658.5	1641.0
55°	1295.0	1295.0	1255.1	1240.1	1248.4	1232.6	1206.0	1196.0	1169.4
57.5°	880.8	886.6	884.1	866.7	827.6	813.4	798.5	813.4	822.6
60°	566.4	580.6	578.1	576.4	543.1	509.9	524.0	537.3	539.0
62.5°	348.5	355.2	366.8	356.8	340.2	313.6	310.2	330.2	348.5
65°	201.3	208.8	217.9	211.3	193.8	189.6	184.6	195.5	198.8
67.5°	114.8	111.5	112.3	107.3	102.3	96.5	97.3	102.3	109.8
70°	60.7	52.4	53.2	48.2	52.4	46.6	44.9	49.1	50.7
72.5°	30.8	29.9	34.1	34.1	36.6	32.4	32.4	30.8	34.9
75°	18.3	20.8	22.5	25.0	20.0	19.1	19.1	19.1	20.0
77.5°	5.0	2.5	3.3	10.8	4.2	8.3	4.2	3.3	7.5
80°	14.1	8.3	5.0	9.1	10.0	5.0	12.5	11.6	3.3
82.5°	5.0	0.0	9.1	10.0	8.3	8.3	10.0	10.0	9.1
85°	7.5	5.0	10.8	12.5	14.1	8.3	6.7	4.2	5.8
87.5°	3.3	0.0	5.0	4.2	2.5	0.8	2.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)