

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: P248085

Luminaire Tested: **LD8B175D010 ER8B175927 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175927 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15313.5 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

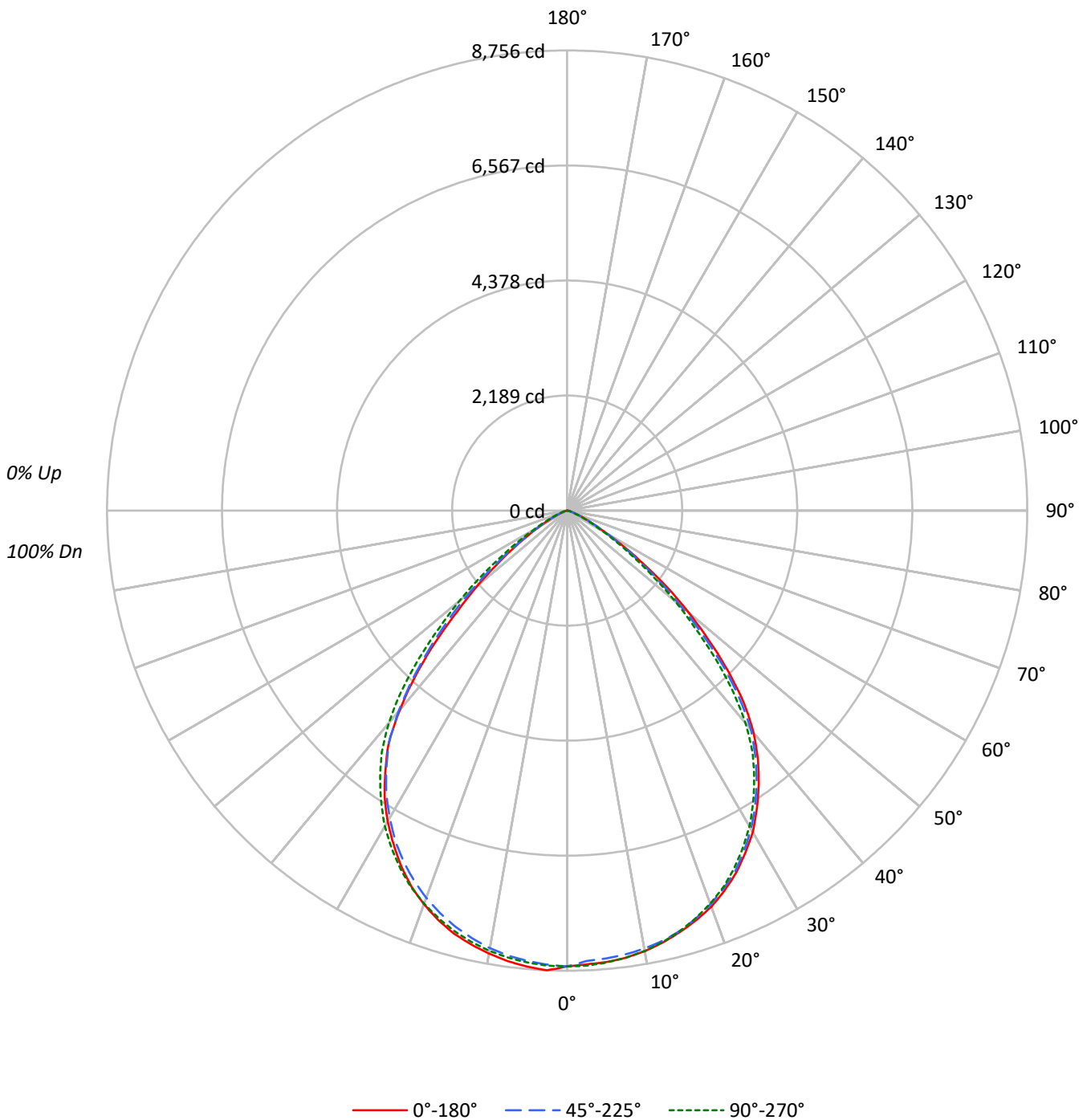
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

**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°	819.1	5.3
10°-20°	2333.0	15.2
20°-30°	3446.6	22.5
30°-40°	3840.8	25.1
40°-50°	3033.2	19.8
50°-60°	1400.7	9.1
60°-70°	359.9	2.3
70°-80°	69.3	0.5
80°-90°	10.9	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°	6598.7	43.1
0°-40°	10439.5	68.2
0°-60°	14873.5	97.1
0°-90°	15313.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15313.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8673	8673	8673	8673	8673	
5°	8623	8554	8632	8605	8709	820
15°	8301	8282	8286	8199	8331	2343
25°	7606	7571	7515	7364	7470	3495
35°	6358	6287	6205	5998	6033	3959
45°	4344	4218	3998	3679	3550	3316
55°	1769	1667	1542	1320	1242	1639
65°	384	389	343	263	244	421
75°	64	67	69	52	43	77
85°	10	10	8	4	4	14
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°	8673.4	8673.4	8673.4	8673.4	8673.4	8673.4	8673.4	8673.4	8673.4
2.5°	8640.7	8681.3	8577.9	8661.8	8665.4	8606.1	8646.9	8695.5	8755.6
5°	8623.0	8664.5	8553.9	8631.8	8631.8	8567.2	8605.2	8647.8	8708.7
7.5°	8581.4	8626.5	8517.7	8590.3	8578.8	8508.0	8541.6	8583.2	8648.7
10°	8512.4	8568.1	8462.0	8531.0	8507.1	8425.7	8454.9	8498.2	8559.3
12.5°	8417.8	8484.1	8385.1	8445.2	8407.1	8314.3	8338.2	8393.8	8454.0
15°	8301.0	8369.1	8281.6	8333.8	8286.0	8182.6	8199.3	8255.9	8331.1
17.5°	8171.0	8237.4	8139.2	8195.8	8132.2	8025.1	8031.3	8096.7	8164.8
20°	8021.6	8076.4	7975.6	8029.6	7957.9	7840.2	7841.1	7899.5	7970.3
22.5°	7825.3	7882.8	7778.4	7823.5	7758.0	7632.4	7617.4	7674.0	7742.1
25°	7605.9	7666.1	7570.6	7586.4	7514.8	7384.8	7364.5	7406.0	7469.7
27.5°	7343.2	7402.5	7294.6	7315.0	7236.2	7111.5	7084.1	7106.2	7156.6
30°	7063.8	7100.9	6998.3	7015.2	6939.0	6791.4	6749.8	6779.8	6829.4
32.5°	6719.7	6746.3	6658.6	6667.5	6585.3	6458.0	6403.0	6411.9	6462.3
35°	6358.0	6372.1	6287.3	6289.0	6205.0	6075.9	5998.0	5993.7	6032.6
37.5°	5959.1	5968.9	5883.1	5878.7	5792.0	5652.2	5570.9	5556.7	5580.6
40°	5521.4	5534.7	5445.3	5417.0	5284.3	5125.2	4992.5	4967.7	4958.0
42.5°	4990.7	4954.5	4860.7	4813.0	4679.4	4475.1	4352.2	4315.0	4283.2
45°	4344.2	4315.0	4217.7	4109.8	3998.4	3844.5	3679.1	3577.4	3550.0
47.5°	3665.8	3631.4	3491.7	3397.0	3287.4	3216.6	3038.8	2882.2	2814.2
50°	3007.0	2969.0	2813.3	2743.4	2678.8	2573.7	2401.2	2260.6	2234.9
52.5°	2397.6	2340.1	2206.6	2134.1	2076.6	1959.9	1804.2	1722.8	1679.5
55°	1768.8	1760.0	1667.1	1614.9	1541.5	1448.7	1319.5	1258.5	1241.7
57.5°	1288.6	1255.8	1220.5	1176.3	1112.6	995.8	916.2	870.3	866.7
60°	865.8	876.5	876.5	827.8	761.5	685.5	621.8	596.9	597.8
62.5°	581.1	588.2	586.4	565.1	513.8	451.9	410.4	392.6	393.5
65°	383.8	382.0	389.1	374.1	343.1	299.8	262.7	252.9	244.1
67.5°	244.1	246.7	244.1	236.1	217.6	186.6	161.9	146.8	142.4
70°	148.6	145.0	145.9	144.1	130.8	115.9	98.2	85.8	82.2
72.5°	89.3	92.0	92.8	95.5	93.7	83.1	70.8	61.9	60.2
75°	63.7	64.6	67.2	69.9	69.0	61.9	52.2	46.0	43.3
77.5°	47.8	47.8	49.5	53.1	50.4	44.2	37.1	31.8	30.0
80°	32.7	33.6	34.5	34.5	31.8	28.4	22.2	18.6	16.8
82.5°	19.5	20.4	19.5	19.5	17.7	14.2	10.6	9.7	8.9
85°	9.7	9.7	9.7	9.7	8.0	6.2	4.4	3.5	3.5
87.5°	4.4	4.4	4.4	3.5	2.7	1.8	1.8	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)