

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: P248088

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248088  
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 ER8B1759730 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14401.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 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

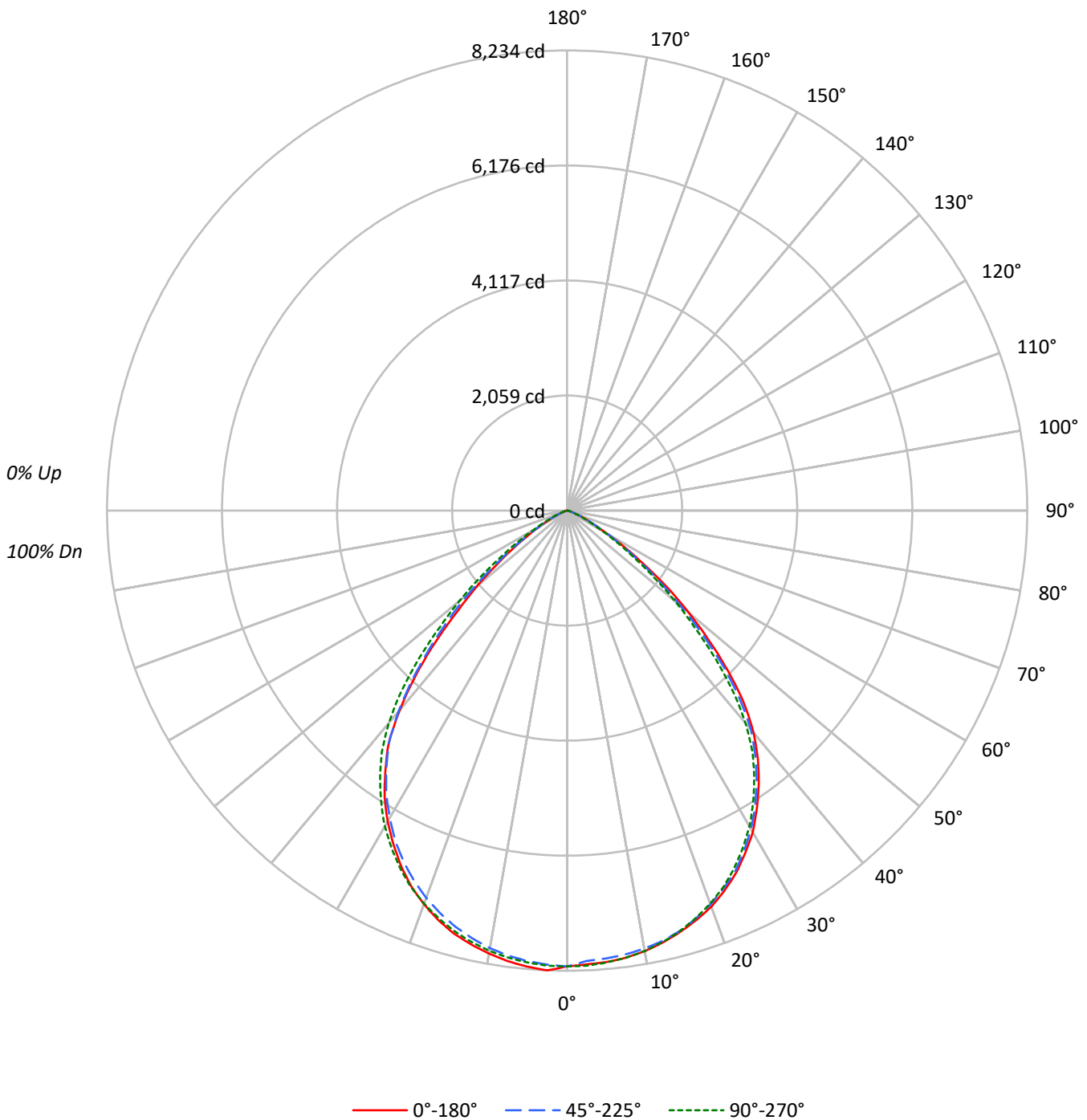
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	770.3	5.3
10°-20°	2194.0	15.2
20°-30°	3241.2	22.5
30°-40°	3612.0	25.1
40°-50°	2852.5	19.8
50°-60°	1317.3	9.1
60°-70°	338.4	2.3
70°-80°	65.2	0.5
80°-90°	10.2	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°	6205.5	43.1
0°-40°	9817.4	68.2
0°-60°	13987.2	97.1
0°-90°	14401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14401.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8156	8156	8156	8156	8156	
5°	8109	8044	8118	8092	8190	771
15°	7806	7788	7792	7711	7835	2203
25°	7153	7119	7067	6926	7025	3287
35°	5979	5913	5835	5641	5673	3723
45°	4085	3966	3760	3460	3338	3118
55°	1663	1568	1450	1241	1168	1542
65°	361	366	323	247	230	396
75°	60	63	65	49	41	72
85°	9	9	8	4	3	13
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°	8156.5	8156.5	8156.5	8156.5	8156.5	8156.5	8156.5	8156.5	8156.5
2.5°	8125.8	8164.0	8066.7	8145.7	8149.1	8093.3	8131.6	8177.3	8233.9
5°	8109.1	8148.2	8044.3	8117.5	8117.5	8056.7	8092.5	8132.4	8189.8
7.5°	8070.1	8112.5	8010.2	8078.4	8067.6	8001.0	8032.6	8071.7	8133.3
10°	8005.2	8057.6	7957.8	8022.6	8000.2	7923.7	7951.1	7991.9	8049.3
12.5°	7916.2	7978.6	7885.4	7942.0	7906.2	7818.9	7841.3	7893.7	7950.3
15°	7806.4	7870.4	7788.1	7837.2	7792.3	7695.0	7710.8	7764.0	7834.7
17.5°	7684.1	7746.5	7654.2	7707.4	7647.5	7546.9	7552.7	7614.3	7678.3
20°	7543.6	7595.1	7500.3	7551.1	7483.7	7373.1	7373.9	7428.8	7495.3
22.5°	7358.9	7413.0	7314.9	7357.3	7295.7	7177.6	7163.5	7216.7	7280.8
25°	7152.7	7209.2	7119.4	7134.4	7067.0	6944.8	6925.6	6964.7	7024.6
27.5°	6905.7	6961.4	6859.9	6879.0	6805.0	6687.8	6662.0	6682.8	6730.2
30°	6642.8	6677.8	6581.3	6597.1	6525.6	6386.7	6347.6	6375.9	6422.4
32.5°	6319.3	6344.3	6261.9	6270.2	6192.9	6073.1	6021.6	6029.9	6077.3
35°	5979.1	5992.4	5912.6	5914.3	5835.3	5713.8	5640.6	5636.5	5673.1
37.5°	5604.0	5613.2	5532.5	5528.4	5446.8	5315.4	5238.9	5225.6	5248.1
40°	5192.3	5204.8	5120.8	5094.2	4969.4	4819.7	4695.0	4671.7	4662.5
42.5°	4693.3	4659.2	4571.1	4526.1	4400.6	4208.4	4092.8	4057.9	4028.0
45°	4085.3	4057.9	3966.4	3864.9	3760.1	3615.4	3459.9	3364.3	3338.5
47.5°	3447.4	3415.0	3283.6	3194.6	3091.5	3024.9	2857.7	2710.5	2646.5
50°	2827.8	2792.0	2645.7	2580.0	2519.2	2420.3	2258.1	2125.8	2101.7
52.5°	2254.8	2200.7	2075.1	2006.9	1952.8	1843.1	1696.7	1620.2	1579.4
55°	1663.4	1655.1	1567.8	1518.7	1449.7	1362.3	1240.9	1183.5	1167.7
57.5°	1211.8	1181.0	1147.8	1106.2	1046.3	936.5	861.6	818.4	815.1
60°	814.2	824.2	824.2	778.5	716.1	644.6	584.7	561.4	562.2
62.5°	546.4	553.1	551.4	531.5	483.2	425.0	385.9	369.3	370.1
65°	361.0	359.3	366.0	351.8	322.7	281.9	247.0	237.9	229.6
67.5°	229.6	232.0	229.6	222.1	204.6	175.5	152.2	138.1	133.9
70°	139.7	136.4	137.2	135.6	123.1	109.0	92.3	80.7	77.3
72.5°	84.0	86.5	87.3	89.8	88.2	78.2	66.5	58.2	56.6
75°	59.9	60.7	63.2	65.7	64.9	58.2	49.1	43.2	40.8
77.5°	44.9	44.9	46.6	49.9	47.4	41.6	34.9	29.9	28.3
80°	30.8	31.6	32.4	32.4	29.9	26.6	20.8	17.5	15.8
82.5°	18.3	19.1	18.3	18.3	16.6	13.3	10.0	9.1	8.3
85°	9.1	9.1	9.1	9.1	7.5	5.8	4.2	3.3	3.3
87.5°	4.2	4.2	4.2	3.3	2.5	1.7	1.7	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)