

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: P250125

Luminaire Tested: **LD8B175D010 ER8B175827 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175827 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17131.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

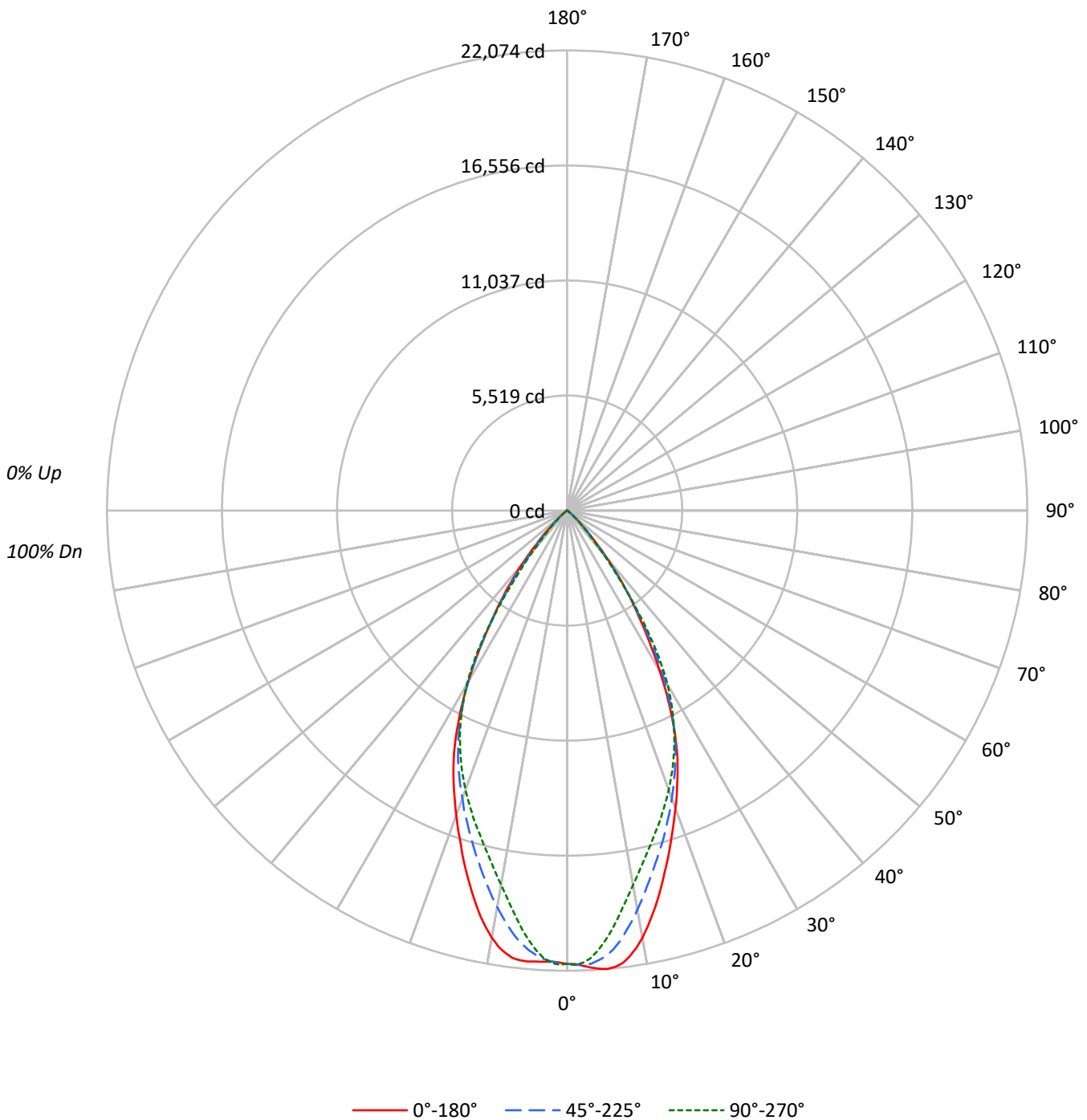
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	670406	670406	670406
5°	683275	641880	672147
10°	651450	571015	651284
15°	575256	515016	585041
20°	498517	467464	510311
25°	421201	414009	436665
30°	316572	342736	338217
35°	211918	224054	229825
40°	118729	101919	136175
45°	47717	41952	56705
50°	16479	15975	19525
55°	4548	5403	5118
60°	2609	3262	2936
65°	2313	1926	1540
70°	0	1434	956
75°	0	0	0
80°	0	0	941
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1973.6	11.5
10°-20°	4773.5	27.9
20°-30°	5594.8	32.7
30°-40°	3681.1	21.5
40°-50°	960.6	5.6
50°-60°	118.2	0.7
60°-70°	24.5	0.1
70°-80°	4.6	0.0
80°-90°	0.1	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°	12342.0	72.0
0°-40°	16023.1	93.5
0°-60°	17101.8	99.8
0°-90°	17131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17131.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21741	21741	21741	21741	21741	
5°	22074	21445	20736	21165	21714	###
15°	18020	16999	16132	16999	18326	5023
25°	12380	12258	12168	12374	12834	5581
35°	5630	5756	5952	6010	6105	3525
45°	1094	1031	962	1115	1300	981
55°	85	90	100	100	95	112
65°	32	26	26	21	21	22
75°	0	5	0	0	0	3
85°	0	0	0	0	0	0
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°	21740.8	21740.8	21740.8	21740.8	21740.8	21740.8	21740.8	21740.8	21740.8
1°	21756.5	21788.4	21798.8	21830.7	21783.1	21751.4	21709.1	21677.3	21682.6
2°	21851.7	21867.6	21809.4	21788.4	21703.8	21677.3	21645.6	21640.3	21645.6
3°	21952.2	21920.4	21767.2	21624.5	21497.6	21481.7	21539.9	21624.5	21672.0
4°	22031.5	21946.9	21624.5	21360.1	21159.3	21143.5	21376.0	21592.7	21682.6
5°	22073.8	21920.4	21444.7	21000.7	20736.5	20836.8	21164.6	21550.4	21714.3
6°	22015.6	21788.4	21169.9	20577.9	20276.6	20408.7	20889.7	21450.0	21693.2
7°	21867.6	21576.9	20815.8	20118.0	19748.0	19954.1	20567.3	21280.8	21613.9
8°	21592.7	21243.9	20366.4	19584.1	19219.4	19451.9	20170.9	21037.7	21423.6
9°	21233.3	20847.4	19922.4	19097.8	18706.7	18981.5	19758.6	20715.3	21159.3
10°	20805.1	20392.8	19430.8	18590.4	18236.3	18495.2	19314.5	20339.9	20799.8
11°	20302.9	19906.5	18939.2	18114.7	17776.4	18030.1	18870.5	19890.7	20387.5
12°	19758.6	19393.8	18437.1	17654.8	17337.6	17580.8	18394.8	19425.5	19917.1
13°	19214.1	18849.3	17950.8	17210.8	16920.0	17152.6	17929.6	18918.1	19409.6
14°	18627.4	18294.3	17464.5	16787.8	16523.6	16745.5	17453.9	18405.3	18870.5
15°	18019.5	17755.1	16999.3	16380.8	16132.5	16343.8	16999.3	17876.7	18326.0
16°	17448.6	17205.5	16550.0	15979.1	15773.1	15942.1	16539.5	17348.2	17776.4
17°	16867.1	16645.2	16100.7	15582.7	15397.7	15561.6	16069.0	16814.4	17200.2
18°	16285.8	16100.7	15609.2	15165.2	15001.3	15149.3	15603.9	16275.1	16624.0
19°	15746.6	15577.4	15159.9	14784.5	14636.6	14768.6	15196.9	15757.2	16106.0
20°	15191.6	15054.1	14689.4	14382.8	14245.3	14366.9	14700.0	15244.5	15551.0
21°	14657.7	14536.1	14219.0	13959.9	13848.9	13949.4	14256.0	14747.6	15017.1
22°	14102.7	14034.0	13748.6	13531.8	13457.8	13521.2	13801.3	14224.3	14478.0
23°	13558.2	13494.8	13278.0	13098.4	13034.9	13098.4	13346.8	13727.4	13954.7
24°	13008.5	12939.8	12781.3	12664.9	12612.1	12664.9	12876.3	13198.8	13415.5
25°	12379.5	12368.9	12258.0	12194.5	12168.1	12226.2	12374.2	12654.4	12834.0
26°	11776.8	11745.2	11713.5	11702.9	11708.2	11739.8	11861.4	12072.9	12215.7
27°	11036.9	11084.5	11132.0	11195.5	11216.6	11243.1	11301.1	11454.4	11560.2
28°	10328.5	10418.4	10534.7	10661.6	10719.8	10719.8	10724.9	10809.5	10899.4
29°	9625.6	9720.7	9905.7	10096.0	10175.3	10164.7	10122.4	10159.4	10212.3
30°	8890.8	9012.4	9260.9	9509.3	9625.6	9583.3	9504.0	9467.0	9498.7
31°	8172.0	8293.6	8568.4	8837.9	8991.2	8943.7	8806.2	8779.9	8795.6
32°	7484.8	7606.4	7860.0	8145.5	8319.9	8256.6	8113.8	8071.5	8076.8
33°	6818.7	6913.9	7146.5	7410.8	7553.5	7537.6	7421.3	7368.5	7373.7
34°	6189.8	6269.1	6443.4	6644.4	6781.7	6776.4	6691.9	6697.2	6713.1
35°	5629.5	5671.8	5756.2	5867.3	5951.9	5999.4	6010.0	6052.3	6105.2
37.5°	4255.2	4270.9	4170.6	4059.5	4038.4	4175.9	4413.7	4619.9	4699.2
40°	2949.5	2912.5	2785.6	2590.1	2531.9	2685.3	2986.5	3277.2	3382.9
42.5°	1834.2	1818.3	1739.1	1591.1	1538.2	1628.1	1855.3	2077.4	2183.1
45°	1094.2	1073.0	1030.7	972.6	962.0	999.0	1115.3	1242.1	1300.3
47.5°	629.0	623.8	597.3	576.2	570.9	597.3	650.2	724.2	740.1
50°	343.5	338.3	333.0	333.0	333.0	348.8	375.3	396.4	407.0
52.5°	169.2	174.5	169.2	174.5	179.8	190.3	185.0	206.2	206.2
55°	84.6	79.3	89.9	100.5	100.5	100.5	100.5	100.5	95.2
57.5°	63.4	68.7	58.2	63.4	58.2	58.2	52.9	58.2	63.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	42.3	37.0	42.3	47.6	52.9	47.6	37.0	42.3	47.6
62.5°	21.1	21.1	21.1	31.7	47.6	37.0	31.7	26.4	26.4
65°	31.7	21.1	26.4	31.7	26.4	26.4	21.1	26.4	21.1
67.5°	15.9	26.4	15.9	10.6	15.9	21.1	15.9	10.6	10.6
70°	0.0	5.3	5.3	15.9	15.9	15.9	15.9	10.6	10.6
72.5°	5.3	5.3	5.3	10.6	5.3	10.6	5.3	5.3	10.6
75°	0.0	0.0	5.3	5.3	0.0	5.3	0.0	0.0	0.0
77.5°	5.3	0.0	5.3	5.3	0.0	0.0	0.0	5.3	0.0
80°	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)