

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: P250195

Luminaire Tested: **LD8B175D010 ER8B175927 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250195
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 ER8B175927 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14303.2 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

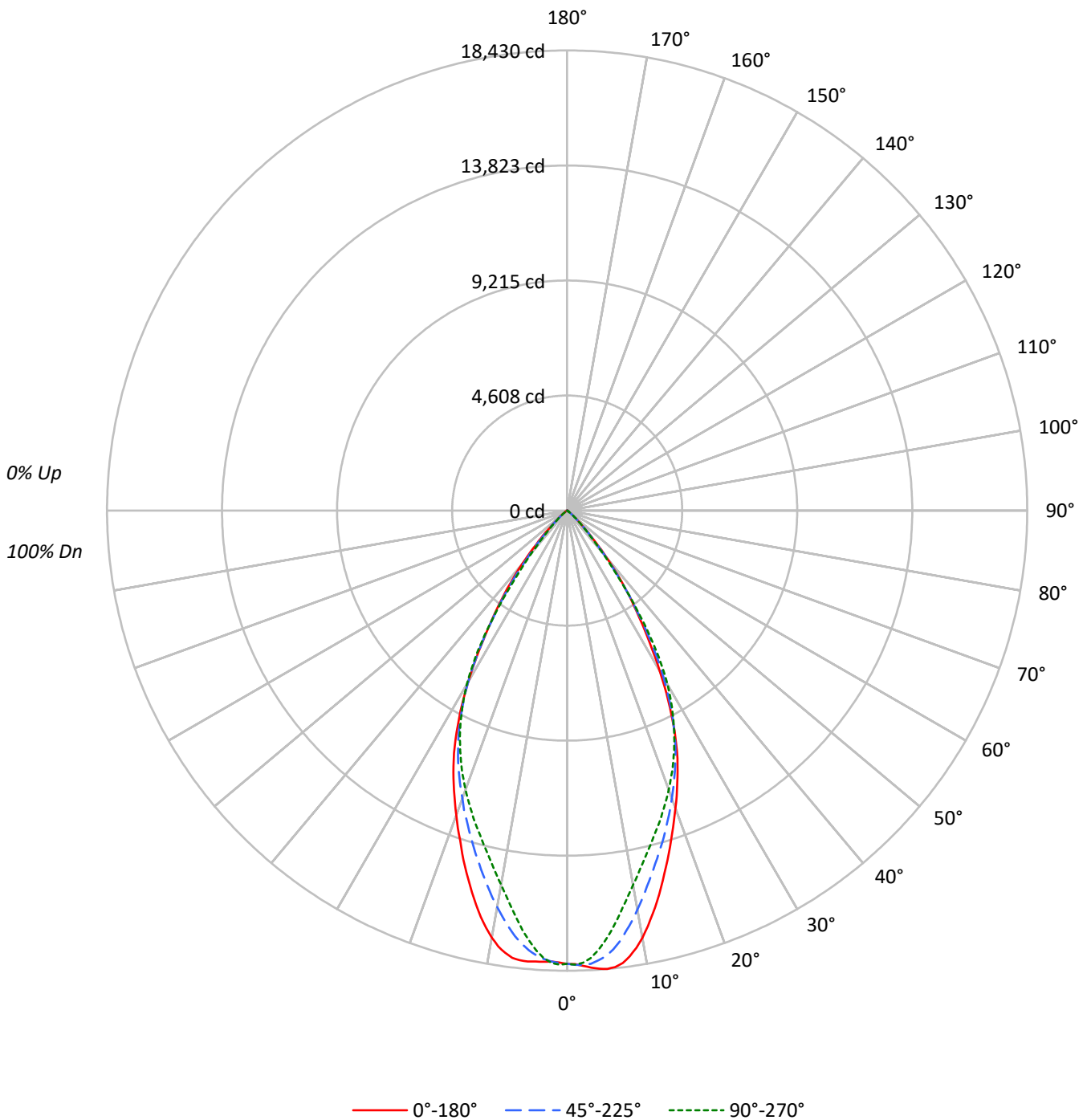
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52

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°	1647.9	11.5
10°-20°	3985.6	27.9
20°-30°	4671.3	32.7
30°-40°	3073.5	21.5
40°-50°	802.0	5.6
50°-60°	98.6	0.7
60°-70°	20.5	0.1
70°-80°	3.8	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°	10304.7	72.0
0°-40°	13378.2	93.5
0°-60°	14278.9	99.8
0°-90°	14303.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14303.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18152	18152	18152	18152	18152	
5°	18430	17905	17314	17671	18130	###
15°	15045	14193	13470	14193	15301	4194
25°	10336	10235	10160	10332	10716	4660
35°	4700	4806	4970	5018	5097	2943
45°	914	860	803	931	1086	819
55°	71	75	84	84	79	94
65°	26	22	22	18	18	18
75°	0	4	0	0	0	2
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°	18152.1	18152.1	18152.1	18152.1	18152.1	18152.1	18152.1	18152.1	18152.1
1°	18165.3	18191.8	18200.6	18227.1	18187.4	18161.0	18125.7	18099.1	18103.5
2°	18244.8	18258.1	18209.5	18191.8	18121.2	18099.1	18072.7	18068.2	18072.7
3°	18328.6	18302.1	18174.1	18055.0	17949.0	17935.8	17984.4	18055.0	18094.6
4°	18394.9	18324.2	18055.0	17834.3	17666.6	17653.4	17847.6	18028.5	18103.5
5°	18430.2	18302.1	17904.9	17534.2	17313.5	17397.3	17671.0	17993.1	18129.9
6°	18381.6	18191.8	17675.4	17181.2	16929.6	17039.9	17441.6	17909.3	18112.4
7°	18258.1	18015.3	17379.8	16797.1	16488.2	16660.4	17172.3	17768.1	18046.1
8°	18028.5	17737.2	17004.6	16351.4	16046.9	16241.1	16841.4	17565.1	17887.3
9°	17728.3	17406.2	16633.9	15945.4	15618.8	15848.3	16497.1	17295.9	17666.6
10°	17370.9	17026.6	16223.4	15521.7	15226.1	15442.3	16126.4	16982.6	17366.5
11°	16951.6	16620.6	15813.0	15124.6	14842.1	15054.0	15755.6	16607.5	17022.3
12°	16497.1	16192.6	15393.8	14740.5	14475.8	14678.8	15358.5	16219.0	16629.5
13°	16042.5	15738.0	14987.7	14369.8	14127.1	14321.2	14970.0	15795.3	16205.7
14°	15552.7	15274.6	14581.7	14016.7	13796.1	13981.4	14572.9	15367.3	15755.6
15°	15045.1	14824.4	14193.3	13676.8	13469.5	13646.0	14193.3	14925.8	15301.0
16°	14568.4	14365.5	13818.2	13341.5	13169.5	13310.6	13809.4	14484.6	14842.1
17°	14083.0	13897.6	13443.0	13010.5	12856.1	12992.8	13416.5	14038.9	14361.0
18°	13597.5	13443.0	13032.7	12661.9	12525.1	12648.6	13028.2	13588.6	13879.9
19°	13147.3	13006.1	12657.5	12344.2	12220.5	12330.8	12688.4	13156.2	13447.5
20°	12683.9	12569.2	12264.6	12008.7	11893.9	11995.4	12273.5	12728.1	12984.1
21°	12238.2	12136.7	11871.9	11655.6	11563.0	11646.9	11902.7	12313.2	12538.2
22°	11774.8	11717.4	11479.2	11298.2	11236.4	11289.3	11523.2	11876.3	12088.2
23°	11320.2	11267.3	11086.3	10936.2	10883.2	10936.2	11143.7	11461.4	11651.3
24°	10861.2	10803.9	10671.5	10574.3	10530.2	10574.3	10750.8	11020.1	11201.1
25°	10336.1	10327.3	10234.6	10181.6	10159.5	10208.0	10331.7	10565.6	10715.5
26°	9832.8	9806.4	9780.0	9771.1	9775.6	9802.0	9903.5	10080.1	10199.2
27°	9215.1	9254.8	9294.4	9347.5	9365.1	9387.2	9435.7	9563.6	9652.1
28°	8623.7	8698.7	8795.8	8901.7	8950.3	8950.3	8954.7	9025.2	9100.4
29°	8036.8	8116.1	8270.7	8429.5	8495.7	8486.8	8451.6	8482.4	8526.6
30°	7423.2	7524.8	7732.2	7939.7	8036.8	8001.4	7935.2	7904.4	7930.8
31°	6823.0	6924.6	7154.0	7379.1	7507.0	7467.4	7352.7	7330.6	7343.8
32°	6249.4	6350.8	6562.6	6801.0	6946.6	6893.7	6774.4	6739.2	6743.6
33°	5693.2	5772.7	5966.8	6187.5	6306.6	6293.4	6196.3	6152.3	6156.6
34°	5168.0	5234.3	5379.9	5547.6	5662.3	5657.8	5587.3	5591.7	5605.0
35°	4700.2	4735.6	4806.1	4898.8	4969.5	5009.1	5018.0	5053.3	5097.4
37.5°	3552.8	3565.9	3482.1	3389.4	3371.7	3486.6	3685.2	3857.3	3923.6
40°	2462.6	2431.8	2325.8	2162.6	2114.0	2242.0	2493.6	2736.3	2824.5
42.5°	1531.5	1518.2	1452.0	1328.4	1284.3	1359.3	1549.1	1734.5	1822.7
45°	913.6	895.8	860.5	812.0	803.2	834.1	931.2	1037.1	1085.7
47.5°	525.2	520.9	498.7	481.0	476.7	498.7	542.8	604.6	617.8
50°	286.8	282.5	278.1	278.1	278.1	291.3	313.4	331.0	339.9
52.5°	141.3	145.7	141.3	145.7	150.1	158.8	154.5	172.1	172.1
55°	70.6	66.1	75.0	83.9	83.9	83.9	83.9	83.9	79.4
57.5°	52.9	57.4	48.6	52.9	48.6	48.6	44.2	48.6	52.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	35.3	30.9	35.3	39.7	44.2	39.7	30.9	35.3	39.7
62.5°	17.6	17.6	17.6	26.4	39.7	30.9	26.4	22.0	22.0
65°	26.4	17.6	22.0	26.4	22.0	22.0	17.6	22.0	17.6
67.5°	13.3	22.0	13.3	8.9	13.3	17.6	13.3	8.9	8.9
70°	0.0	4.4	4.4	13.3	13.3	13.3	13.3	8.9	8.9
72.5°	4.4	4.4	4.4	8.9	4.4	8.9	4.4	4.4	8.9
75°	0.0	0.0	4.4	4.4	0.0	4.4	0.0	0.0	0.0
77.5°	4.4	0.0	4.4	4.4	0.0	0.0	0.0	4.4	0.0
80°	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	4.4
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)