

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: P250132

Luminaire Tested: **LD8B175D010 ER8B175830 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250132  
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 ER8B175830 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17560.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

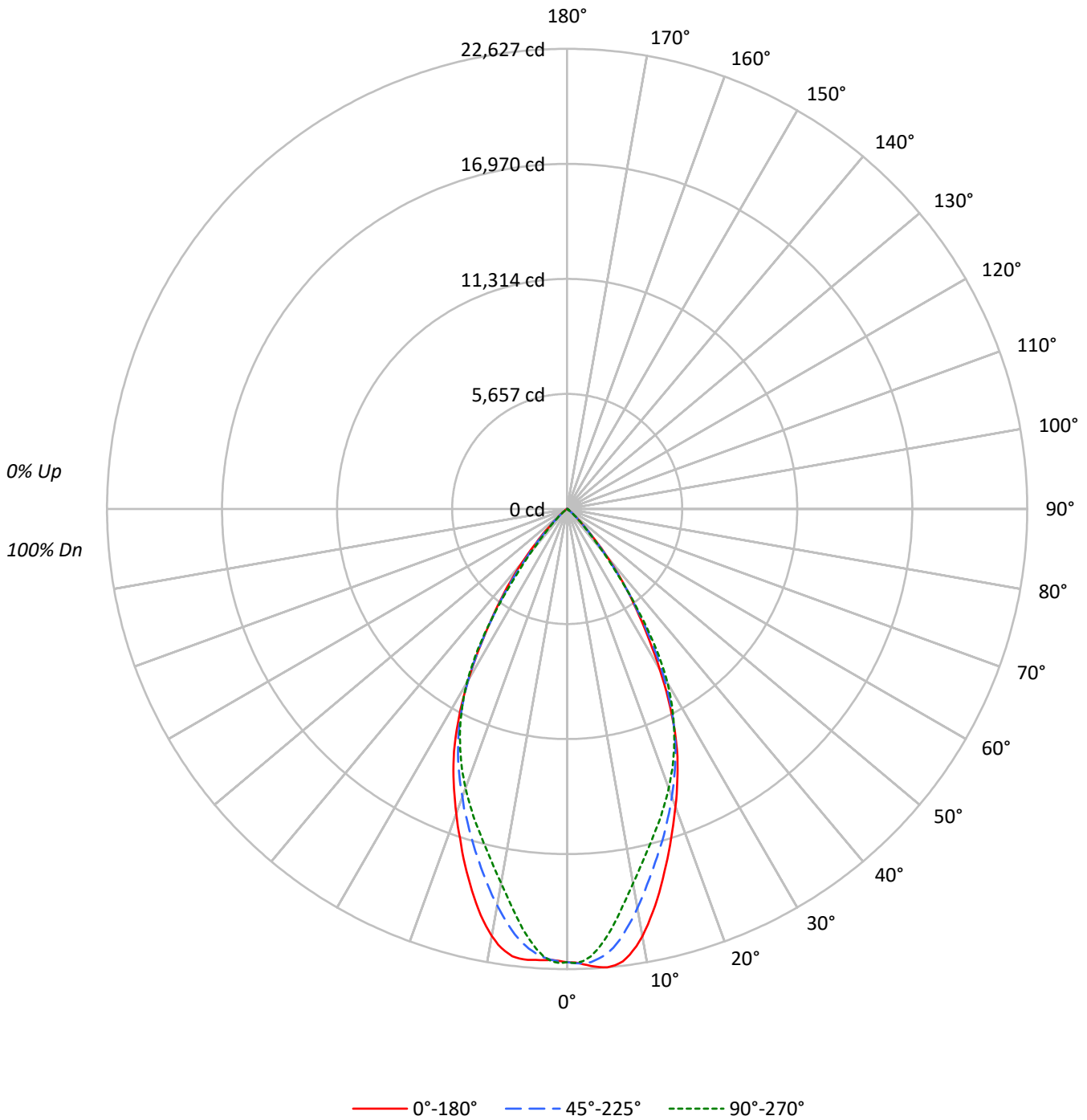
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	687193	687193	687193
5°	700386	657954	688976
10°	667766	585312	667594
15°	589664	527913	599694
20°	511000	479173	523089
25°	431752	424376	447601
30°	324502	351317	346688
35°	217226	229667	235581
40°	121704	104471	139585
45°	48912	43003	58127
50°	16891	16378	20014
55°	4661	5537	5247
60°	2677	3343	3010
65°	2371	1970	1576
70°	0	1470	983
75°	0	0	0
80°	0	0	959
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2023.1	11.5
10°-20°	4893.1	27.9
20°-30°	5734.9	32.7
30°-40°	3773.3	21.5
40°-50°	984.6	5.6
50°-60°	121.1	0.7
60°-70°	25.1	0.1
70°-80°	4.7	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°	12651.0	72.0
0°-40°	16424.3	93.5
0°-60°	17530.1	99.8
0°-90°	17560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	22285	22285	22285	22285	22285	
5°	22627	21982	21256	21695	22258	###
15°	18471	17425	16536	17425	18785	5149
25°	12690	12565	12473	12684	13155	5721
35°	5770	5900	6101	6160	6258	3613
45°	1122	1056	986	1143	1333	1005
55°	87	92	103	103	98	115
65°	32	27	27	22	22	23
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°	22285.2	22285.2	22285.2	22285.2	22285.2	22285.2	22285.2	22285.2	22285.2
1°	22301.4	22334.0	22344.7	22377.3	22328.6	22296.1	22252.7	22220.1	22225.5
2°	22399.0	22415.3	22355.6	22334.0	22247.3	22220.1	22187.6	22182.2	22187.6
3°	22502.0	22469.4	22312.3	22166.0	22036.0	22019.7	22079.3	22166.0	22214.7
4°	22583.2	22496.5	22166.0	21895.0	21689.2	21673.0	21911.3	22133.4	22225.5
5°	22626.6	22469.4	21981.7	21526.6	21255.8	21358.6	21694.6	22090.1	22258.0
6°	22566.9	22334.0	21700.0	21093.2	20784.3	20919.8	21412.9	21987.2	22236.4
7°	22415.3	22117.2	21337.0	20621.8	20242.5	20453.8	21082.4	21813.8	22155.2
8°	22133.4	21775.9	20876.5	20074.5	19700.7	19939.0	20676.0	21564.5	21960.1
9°	21765.0	21369.5	20421.3	19576.0	19175.1	19456.9	20253.4	21234.0	21689.2
10°	21326.2	20903.5	19917.4	19055.9	18692.9	18958.4	19798.2	20849.3	21320.7
11°	20811.4	20405.0	19413.5	18568.3	18221.5	18481.6	19343.1	20388.9	20898.1
12°	20253.4	19879.5	18898.8	18096.9	17771.8	18021.1	18855.5	19912.0	20415.9
13°	19695.2	19321.4	18400.4	17641.8	17343.7	17582.1	18378.6	19391.9	19895.7
14°	19093.9	18752.5	17901.9	17208.2	16937.4	17164.9	17891.0	18866.2	19343.1
15°	18470.8	18199.8	17425.0	16791.0	16536.5	16753.1	17425.0	18324.4	18785.0
16°	17885.6	17636.3	16964.4	16379.3	16168.1	16341.3	16953.7	17782.7	18221.5
17°	17289.5	17062.0	16503.9	15972.9	15783.3	15951.3	16471.4	17235.4	17630.9
18°	16693.6	16503.9	16000.1	15545.0	15377.0	15528.7	15994.7	16682.7	17040.3
19°	16140.9	15967.5	15539.5	15154.8	15003.1	15138.5	15577.4	16151.8	16509.3
20°	15572.0	15431.1	15057.2	14743.0	14602.1	14726.7	15068.1	15626.2	15940.4
21°	15024.7	14900.1	14575.0	14309.5	14195.7	14298.7	14613.0	15116.9	15393.2
22°	14455.9	14385.5	14092.9	13870.7	13794.8	13859.8	14147.0	14580.5	14840.6
23°	13897.7	13832.8	13610.6	13426.4	13361.3	13426.4	13681.1	14071.1	14304.2
24°	13334.3	13263.9	13101.3	12982.0	12927.9	12982.0	13198.8	13529.3	13751.5
25°	12689.6	12678.7	12564.9	12499.8	12472.8	12532.3	12684.1	12971.3	13155.4
26°	12071.8	12039.3	12006.8	11995.9	12001.4	12033.8	12158.5	12375.2	12521.6
27°	11313.3	11362.1	11410.7	11475.8	11497.4	11524.6	11584.1	11741.2	11849.7
28°	10587.2	10679.3	10798.5	10928.6	10988.2	10988.2	10993.5	11080.2	11172.4
29°	9866.6	9964.1	10153.8	10348.8	10430.1	10419.2	10375.9	10413.8	10468.0
30°	9113.5	9238.1	9492.8	9747.4	9866.6	9823.3	9742.0	9704.1	9736.6
31°	8376.6	8501.2	8783.0	9059.3	9216.4	9167.7	9026.8	8999.7	9015.9
32°	7672.3	7796.9	8056.9	8349.4	8528.3	8463.3	8317.0	8273.6	8279.0
33°	6989.5	7087.1	7325.4	7596.4	7742.6	7726.3	7607.2	7553.1	7558.4
34°	6344.8	6426.0	6604.8	6810.8	6951.6	6946.1	6859.4	6864.9	6881.2
35°	5770.5	5813.8	5900.4	6014.3	6101.0	6149.6	6160.5	6203.9	6258.1
37.5°	4361.7	4377.9	4275.0	4161.1	4139.5	4280.4	4524.3	4735.6	4816.8
40°	3023.4	2985.5	2855.4	2654.9	2595.3	2752.5	3061.3	3359.3	3467.6
42.5°	1880.2	1863.9	1782.6	1630.9	1576.7	1668.9	1901.8	2129.4	2237.7
45°	1121.6	1099.8	1056.5	997.0	986.1	1024.0	1143.2	1273.3	1332.9
47.5°	644.7	639.4	612.2	590.6	585.2	612.2	666.5	742.3	758.6
50°	352.1	346.8	341.4	341.4	341.4	357.6	384.7	406.3	417.2
52.5°	173.4	178.8	173.4	178.8	184.3	195.0	189.6	211.3	211.3
55°	86.7	81.3	92.1	103.0	103.0	103.0	103.0	103.0	97.6
57.5°	65.0	70.4	59.7	65.0	59.7	59.7	54.2	59.7	65.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	43.4	37.9	43.4	48.8	54.2	48.8	37.9	43.4	48.8
62.5°	21.6	21.6	21.6	32.5	48.8	37.9	32.5	27.0	27.0
65°	32.5	21.6	27.0	32.5	27.0	27.0	21.6	27.0	21.6
67.5°	16.3	27.0	16.3	10.9	16.3	21.6	16.3	10.9	10.9
70°	0.0	5.4	5.4	16.3	16.3	16.3	16.3	10.9	10.9
72.5°	5.4	5.4	5.4	10.9	5.4	10.9	5.4	5.4	10.9
75°	0.0	0.0	5.4	5.4	0.0	5.4	0.0	0.0	0.0
77.5°	5.4	0.0	5.4	5.4	0.0	0.0	0.0	5.4	0.0
80°	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	5.4
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)