

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: P250153

Luminaire Tested: **LD8B175D010 ER8B175850 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250153  
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 ER8B175850 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18496.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

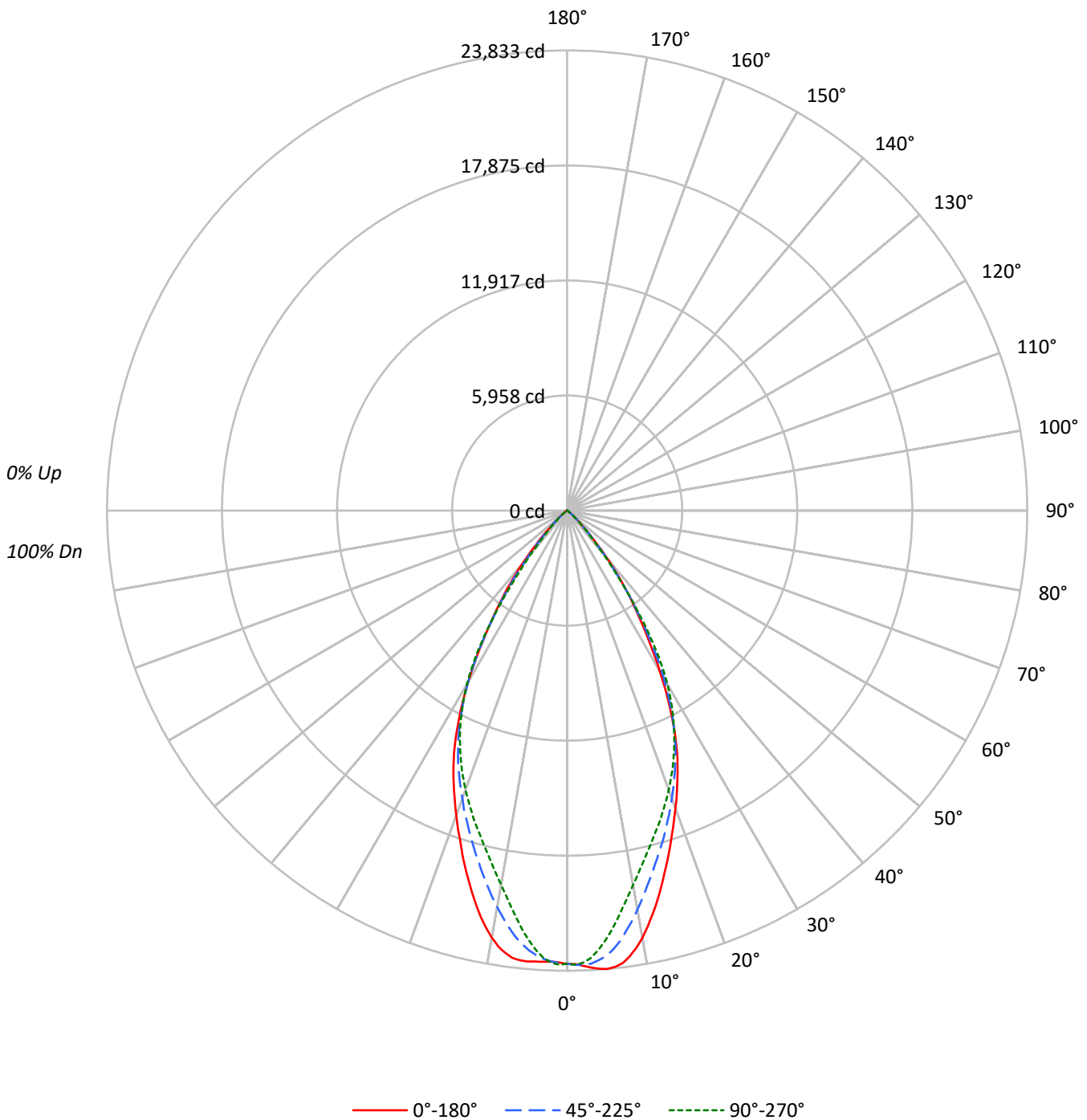
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	723824	723824	723824
5°	737717	693025	725703
10°	703359	616512	703180
15°	621093	556051	631660
20°	538237	504713	550973
25°	454763	446995	471458
30°	341799	370046	365168
35°	228801	241909	248135
40°	128189	110038	147028
45°	51520	45297	61227
50°	17793	17251	21084
55°	4908	5833	5527
60°	2818	3522	3170
65°	2495	2080	1664
70°	0	1551	1028
75°	0	0	0
80°	0	0	1012
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2130.9	11.5
10°-20°	5153.9	27.9
20°-30°	6040.6	32.7
30°-40°	3974.4	21.5
40°-50°	1037.1	5.6
50°-60°	127.6	0.7
60°-70°	26.5	0.1
70°-80°	4.9	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°	13325.4	72.0
0°-40°	17299.8	93.5
0°-60°	18464.5	99.8
0°-90°	18496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18496.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	23473	23473	23473	23473	23473	
5°	23833	23153	22389	22851	23444	###
15°	19455	18354	17418	18354	19786	5423
25°	13366	13235	13138	13360	13857	6026
35°	6078	6215	6426	6489	6592	3806
45°	1181	1113	1039	1204	1404	1059
55°	91	97	108	108	103	121
65°	34	28	28	23	23	24
75°	0	6	0	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250153

CATALOG NUMBER: LD8B175D010 ER8B175850 8LBM0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	23473.1	23473.1	23473.1	23473.1	23473.1	23473.1	23473.1	23473.1	23473.1
1°	23490.1	23524.5	23535.8	23570.1	23518.7	23484.5	23438.9	23404.5	23410.2
2°	23592.9	23610.1	23547.2	23524.5	23433.1	23404.5	23370.3	23364.6	23370.3
3°	23701.4	23667.0	23501.6	23347.5	23210.5	23193.4	23256.2	23347.5	23398.8
4°	23787.0	23695.7	23347.5	23062.1	22845.2	22828.2	23079.3	23313.2	23410.2
5°	23832.6	23667.0	23153.4	22674.0	22388.8	22497.1	22851.0	23267.5	23444.5
6°	23769.8	23524.5	22856.7	22217.6	21892.2	22034.9	22554.2	23159.2	23421.7
7°	23610.1	23296.1	22474.4	21721.0	21321.5	21544.1	22206.1	22976.5	23336.1
8°	23313.2	22936.6	21989.2	21144.5	20750.8	21001.8	21778.1	22714.0	23130.7
9°	22925.1	22508.6	21509.9	20619.5	20197.2	20494.0	21332.9	22365.9	22845.2
10°	22462.9	22017.7	20979.1	20071.7	19689.3	19968.9	20853.5	21960.6	22457.2
11°	21920.7	21492.7	20448.3	19558.1	19192.8	19466.8	20374.1	21475.6	22012.0
12°	21332.9	20939.1	19906.2	19061.5	18719.1	18981.6	19860.5	20973.3	21504.1
13°	20745.0	20351.2	19381.2	18582.1	18268.2	18519.3	19358.3	20425.5	20956.2
14°	20111.6	19752.0	18856.1	18125.5	17840.2	18079.8	18844.6	19871.9	20374.1
15°	19455.3	19169.9	18353.8	17686.0	17417.9	17646.1	18353.8	19301.1	19786.3
16°	18838.9	18576.4	17868.7	17252.3	17029.9	17212.4	17857.4	18730.6	19192.8
17°	18211.1	17971.5	17383.6	16824.3	16624.6	16801.6	17349.4	18154.1	18570.7
18°	17583.4	17383.6	16852.9	16373.5	16196.6	16356.4	16847.2	17572.0	17948.6
19°	17001.2	16818.6	16367.8	15962.6	15802.8	15945.4	16407.8	17012.7	17389.3
20°	16402.0	16253.6	15859.8	15528.9	15380.4	15511.7	15871.3	16459.1	16790.1
21°	15825.6	15694.3	15351.9	15072.2	14952.4	15060.9	15391.9	15922.6	16213.7
22°	15226.4	15152.2	14844.1	14610.0	14530.1	14598.6	14901.0	15357.7	15631.6
23°	14638.5	14570.1	14336.0	14142.1	14073.5	14142.1	14410.3	14821.2	15066.6
24°	14045.0	13970.9	13799.7	13674.0	13617.0	13674.0	13902.3	14250.4	14484.5
25°	13365.9	13354.5	13234.7	13166.1	13137.6	13200.3	13360.2	13662.7	13856.6
26°	12715.2	12681.0	12646.8	12635.3	12641.1	12675.3	12806.5	13034.9	13189.0
27°	11916.3	11967.7	12019.0	12087.5	12110.3	12138.9	12201.6	12367.1	12481.3
28°	11151.5	11248.6	11374.1	11511.1	11573.9	11573.9	11579.5	11670.8	11767.9
29°	10392.6	10495.2	10695.0	10900.4	10986.0	10974.6	10928.9	10968.9	11026.0
30°	9599.3	9730.5	9998.8	10267.0	10392.6	10346.9	10261.3	10221.4	10255.6
31°	8823.1	8954.4	9251.1	9542.1	9707.6	9656.4	9507.9	9479.4	9496.5
32°	8081.2	8212.5	8486.3	8794.5	8982.9	8914.4	8760.3	8714.6	8720.3
33°	7362.1	7464.8	7715.9	8001.3	8155.4	8138.2	8012.6	7955.7	7961.3
34°	6683.0	6768.6	6956.8	7173.8	7322.1	7316.4	7225.1	7230.8	7248.0
35°	6078.0	6123.7	6214.9	6334.8	6426.2	6477.4	6488.9	6534.5	6591.6
37.5°	4594.2	4611.3	4502.9	4382.9	4360.2	4508.6	4765.4	4988.0	5073.6
40°	3184.5	3144.6	3007.6	2796.5	2733.6	2899.2	3224.5	3538.4	3652.5
42.5°	1980.4	1963.2	1877.6	1717.9	1660.8	1757.8	2003.2	2242.9	2357.0
45°	1181.4	1158.5	1112.8	1050.1	1038.7	1078.6	1204.1	1341.1	1404.0
47.5°	679.1	673.5	644.9	622.1	616.4	644.9	702.0	781.9	799.0
50°	370.9	365.3	359.6	359.6	359.6	376.6	405.2	428.0	439.5
52.5°	182.7	188.4	182.7	188.4	194.1	205.4	199.7	222.6	222.6
55°	91.3	85.6	97.0	108.5	108.5	108.5	108.5	108.5	102.8
57.5°	68.4	74.2	62.8	68.4	62.8	62.8	57.1	62.8	68.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	45.7	39.9	45.7	51.4	57.1	51.4	39.9	45.7	51.4
62.5°	22.8	22.8	22.8	34.2	51.4	39.9	34.2	28.5	28.5
65°	34.2	22.8	28.5	34.2	28.5	28.5	22.8	28.5	22.8
67.5°	17.2	28.5	17.2	11.4	17.2	22.8	17.2	11.4	11.4
70°	0.0	5.7	5.7	17.2	17.2	17.2	17.2	11.4	11.4
72.5°	5.7	5.7	5.7	11.4	5.7	11.4	5.7	5.7	11.4
75°	0.0	0.0	5.7	5.7	0.0	5.7	0.0	0.0	0.0
77.5°	5.7	0.0	5.7	5.7	0.0	0.0	0.0	5.7	0.0
80°	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	5.7
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)