

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: P250189

Luminaire Tested: **LD8B200D010 ER8B200950 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250189  
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: LD8B200D010 ER8B200950 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19849.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

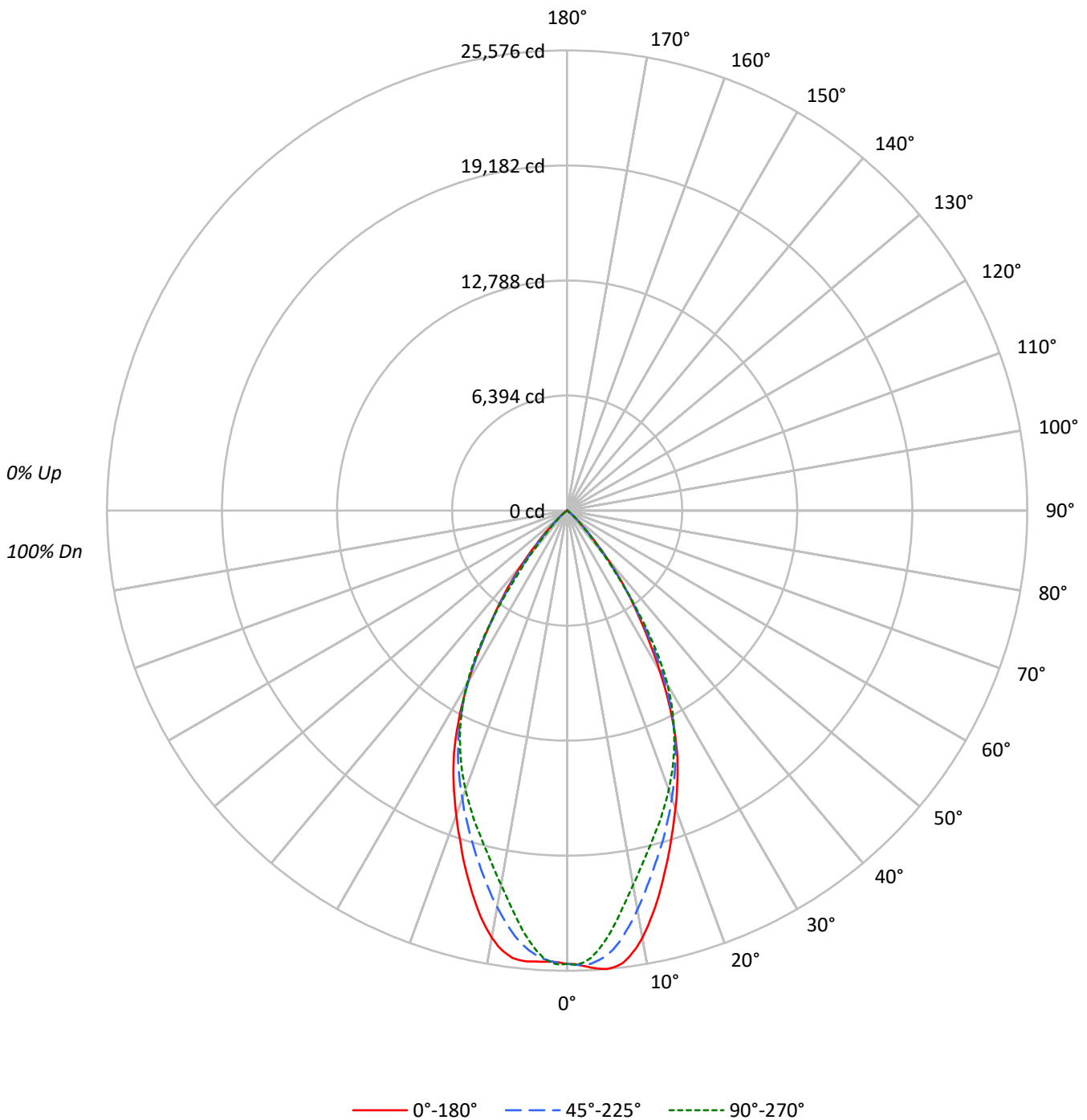
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	776773	776773	776773
5°	791682	743719	778787
10°	754811	661610	754616
15°	666527	596729	677864
20°	577612	541633	591276
25°	488032	479696	505949
30°	366799	397115	391880
35°	245542	259606	266287
40°	137568	118089	157783
45°	55288	48607	65706
50°	19093	18513	22624
55°	5269	6258	5930
60°	3022	3781	3398
65°	2678	2233	1780
70°	0	1659	1109
75°	0	0	0
80°	0	0	1083
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2286.8	11.5
10°-20°	5530.9	27.9
20°-30°	6482.5	32.7
30°-40°	4265.1	21.5
40°-50°	1113.0	5.6
50°-60°	136.9	0.7
60°-70°	28.4	0.1
70°-80°	5.3	0.0
80°-90°	0.2	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°	14300.1	72.0
0°-40°	18565.3	93.5
0°-60°	19815.1	99.8
0°-90°	19849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19849.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	25190	25190	25190	25190	25190	
5°	25576	24847	24026	24522	25159	###
15°	20878	19696	18692	19696	21234	5820
25°	14344	14203	14099	14338	14870	6466
35°	6523	6670	6896	6964	7074	4084
45°	1268	1194	1115	1292	1507	1136
55°	98	104	116	116	110	130
65°	37	31	31	24	24	26
75°	0	6	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°	25190.2	25190.2	25190.2	25190.2	25190.2	25190.2	25190.2	25190.2	25190.2
1°	25208.4	25245.3	25257.4	25294.3	25239.2	25202.4	25153.4	25116.6	25122.7
2°	25318.7	25337.2	25269.7	25245.3	25147.3	25116.6	25079.9	25073.7	25079.9
3°	25435.2	25398.3	25220.7	25055.4	24908.4	24890.0	24957.4	25055.4	25110.4
4°	25527.0	25429.0	25055.4	24749.1	24516.4	24498.1	24767.6	25018.6	25122.7
5°	25576.0	25398.3	24847.1	24332.7	24026.5	24142.8	24522.5	24969.6	25159.4
6°	25508.6	25245.3	24528.7	23842.8	23493.6	23646.8	24204.1	24853.3	25135.0
7°	25337.2	25000.3	24118.4	23309.9	22881.2	23120.0	23830.5	24657.3	25043.1
8°	25018.6	24614.4	23597.8	22691.3	22268.7	22538.1	23371.2	24375.5	24822.7
9°	24602.1	24155.1	23083.3	22127.8	21674.7	21993.1	22893.4	24001.9	24516.4
10°	24106.1	23628.3	22513.7	21539.9	21129.6	21429.7	22379.0	23567.1	24099.9
11°	23524.2	23064.9	21944.1	20988.8	20596.7	20890.8	21864.5	23046.6	23622.2
12°	22893.4	22470.9	21362.4	20455.9	20088.4	20370.2	21313.4	22507.6	23077.2
13°	22262.6	21840.0	20798.9	19941.4	19604.5	19874.0	20774.3	21919.7	22489.1
14°	21582.8	21196.9	20235.4	19451.4	19145.2	19402.4	20223.2	21325.5	21864.5
15°	20878.5	20572.2	19696.4	18979.8	18692.1	18936.9	19696.4	20713.0	21233.6
16°	20217.0	19935.3	19175.8	18514.3	18275.6	18471.5	19163.7	20100.7	20596.7
17°	19543.3	19286.1	18655.2	18055.0	17840.7	18030.6	18618.5	19482.1	19929.1
18°	18869.6	18655.2	18085.7	17571.3	17381.4	17552.9	18079.6	18857.4	19261.5
19°	18244.9	18048.9	17565.1	17130.3	16958.8	17111.8	17608.0	18257.2	18661.3
20°	17601.9	17442.6	17020.0	16664.8	16505.5	16646.4	17032.3	17663.2	18018.3
21°	16983.3	16842.4	16474.9	16174.8	16046.2	16162.6	16517.8	17087.4	17399.7
22°	16340.2	16260.6	15929.9	15678.8	15593.0	15666.5	15991.1	16481.1	16775.1
23°	15709.3	15635.9	15384.7	15176.6	15103.0	15176.6	15464.5	15905.3	16168.8
24°	15072.4	14992.9	14809.1	14674.3	14613.1	14674.3	14919.3	15292.9	15544.0
25°	14343.7	14331.4	14202.8	14129.2	14098.7	14166.0	14337.5	14662.1	14870.3
26°	13645.3	13608.6	13571.9	13559.6	13565.8	13602.5	13743.4	13988.4	14153.8
27°	12788.0	12843.2	12898.2	12971.7	12996.2	13026.9	13094.2	13271.8	13394.3
28°	11967.3	12071.4	12206.1	12353.1	12420.6	12420.6	12426.6	12524.6	12628.7
29°	11152.8	11262.9	11477.4	11697.8	11789.7	11777.4	11728.4	11771.2	11832.5
30°	10301.4	10442.3	10730.2	11018.1	11152.8	11103.8	11011.9	10969.1	11005.8
31°	9468.5	9609.4	9927.9	10240.2	10417.7	10362.7	10203.4	10172.9	10191.2
32°	8672.4	8813.2	9107.1	9437.8	9640.0	9566.5	9401.1	9352.1	9358.2
33°	7900.6	8010.9	8280.3	8586.6	8751.9	8733.5	8598.8	8537.6	8543.6
34°	7171.8	7263.7	7465.7	7698.6	7857.7	7851.6	7753.6	7759.7	7778.2
35°	6522.7	6571.7	6669.5	6798.2	6896.3	6951.3	6963.5	7012.5	7073.8
37.5°	4930.3	4948.6	4832.3	4703.6	4679.1	4838.4	5114.0	5352.9	5444.7
40°	3417.5	3374.6	3227.6	3001.0	2933.6	3111.3	3460.3	3797.2	3919.7
42.5°	2125.3	2106.8	2015.0	1843.5	1782.2	1886.4	2149.7	2407.0	2529.4
45°	1267.8	1243.2	1194.2	1126.9	1114.6	1157.5	1292.2	1439.2	1506.7
47.5°	728.8	722.8	692.0	667.6	661.5	692.0	753.3	839.0	857.5
50°	398.0	392.0	385.9	385.9	385.9	404.2	434.9	459.3	471.6
52.5°	196.0	202.2	196.0	202.2	208.3	220.4	214.3	238.9	238.9
55°	98.0	91.9	104.1	116.4	116.4	116.4	116.4	116.4	110.3
57.5°	73.4	79.6	67.4	73.4	67.4	67.4	61.3	67.4	73.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	49.0	42.9	49.0	55.1	61.3	55.1	42.9	49.0	55.1
62.5°	24.4	24.4	24.4	36.7	55.1	42.9	36.7	30.6	30.6
65°	36.7	24.4	30.6	36.7	30.6	30.6	24.4	30.6	24.4
67.5°	18.4	30.6	18.4	12.3	18.4	24.4	18.4	12.3	12.3
70°	0.0	6.1	6.1	18.4	18.4	18.4	18.4	12.3	12.3
72.5°	6.1	6.1	6.1	12.3	6.1	12.3	6.1	6.1	12.3
75°	0.0	0.0	6.1	6.1	0.0	6.1	0.0	0.0	0.0
77.5°	6.1	0.0	6.1	6.1	0.0	0.0	0.0	6.1	0.0
80°	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	6.1
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)