

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: P250175

Luminaire Tested: **LD8B200D010 ER8B200935 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250175
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 ER8B200935 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18356.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

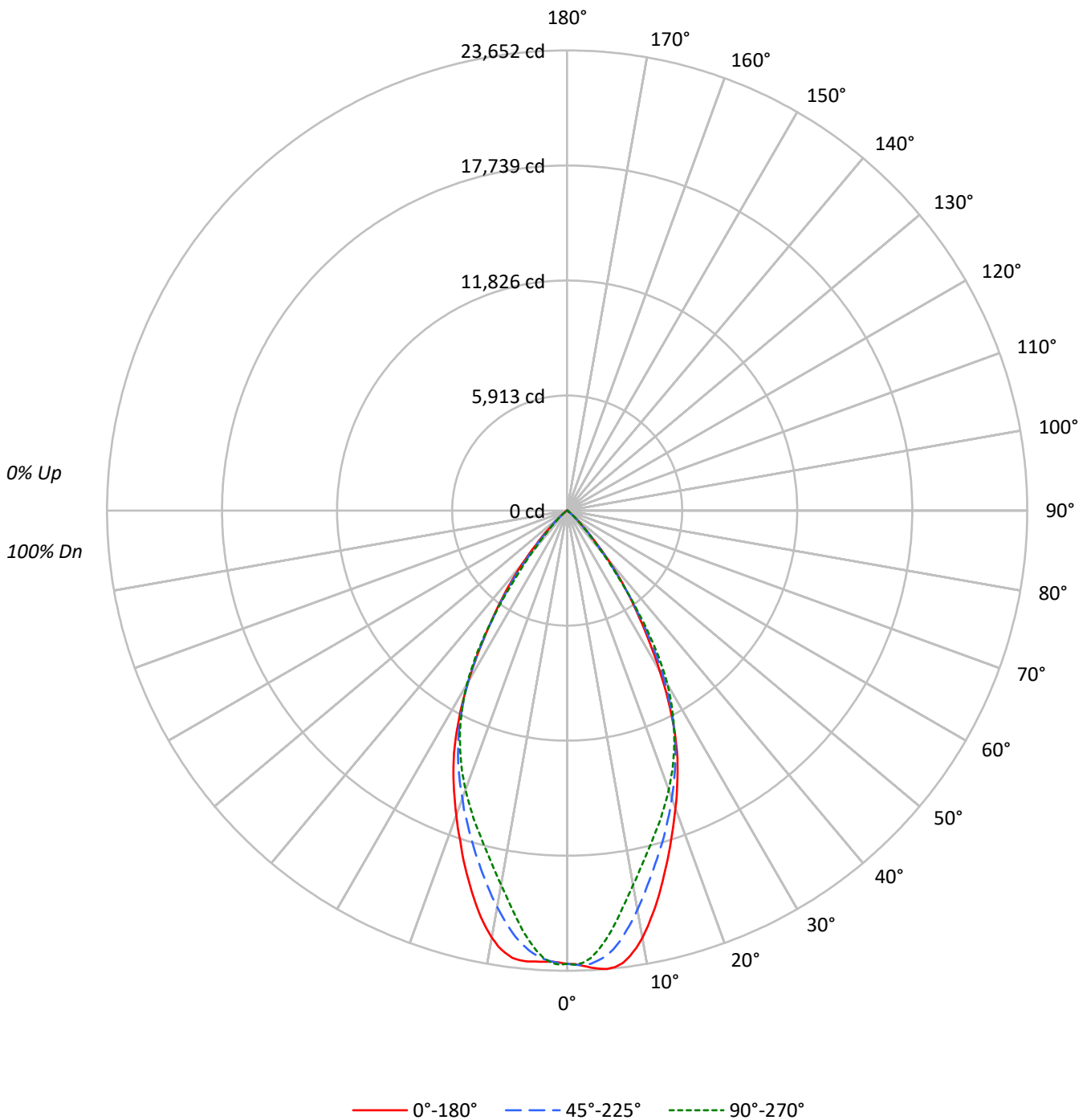
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	718344	718344	718344
5°	732136	687779	720209
10°	698036	611846	697857
15°	616391	551843	626878
20°	534165	500893	546802
25°	451323	443613	467893
30°	339211	367244	362402
35°	227070	240076	246261
40°	127219	109205	145913
45°	51127	44952	60761
50°	17659	17121	20921
55°	4871	5790	5484
60°	2794	3497	3145
65°	2481	2065	1649
70°	0	1533	1028
75°	0	0	0
80°	0	0	1012
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2114.8	11.5
10°-20°	5114.9	27.9
20°-30°	5994.9	32.7
30°-40°	3944.3	21.5
40°-50°	1029.3	5.6
50°-60°	126.6	0.7
60°-70°	26.3	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°	13224.5	72.0
0°-40°	17168.8	93.5
0°-60°	18324.7	99.8
0°-90°	18356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18356.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23295	23295	23295	23295	23295	
5°	23652	22978	22219	22678	23267	###
15°	19308	18215	17286	18215	19636	5382
25°	13265	13134	13038	13259	13752	5980
35°	6032	6168	6378	6440	6542	3777
45°	1172	1104	1031	1195	1393	1051
55°	91	96	108	108	102	120
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	23295.4	23295.4	23295.4	23295.4	23295.4	23295.4	23295.4	23295.4	23295.4
1°	23312.3	23346.4	23357.6	23391.7	23340.7	23306.8	23261.4	23227.4	23233.0
2°	23414.3	23431.4	23369.0	23346.4	23255.8	23227.4	23193.4	23187.7	23193.4
3°	23522.0	23487.9	23323.7	23170.8	23034.9	23017.8	23080.2	23170.8	23221.7
4°	23606.9	23516.3	23170.8	22887.5	22672.3	22655.4	22904.6	23136.7	23233.0
5°	23652.3	23487.9	22978.2	22502.4	22219.3	22326.8	22678.0	23091.4	23267.0
6°	23589.9	23346.4	22683.7	22049.4	21726.5	21868.1	22383.5	22983.9	23244.4
7°	23431.4	23119.8	22304.2	21556.6	21160.1	21381.0	22038.0	22802.6	23159.4
8°	23136.7	22763.0	21822.8	20984.5	20593.7	20842.9	21613.3	22542.1	22955.6
9°	22751.6	22338.2	21347.0	20463.4	20044.3	20338.8	21171.5	22196.6	22672.3
10°	22292.9	21851.1	20820.3	19919.8	19540.3	19817.8	20695.7	21794.4	22287.2
11°	21754.8	21330.0	20293.5	19410.0	19047.5	19319.4	20219.9	21313.1	21845.4
12°	21171.5	20780.6	19755.5	18917.2	18577.4	18838.0	19710.2	20814.6	21341.4
13°	20588.0	20197.2	19234.5	18441.5	18129.9	18379.1	19211.7	20270.9	20797.6
14°	19959.4	19602.5	18713.4	17988.3	17705.2	17943.0	18702.0	19721.4	20219.9
15°	19308.0	19024.8	18214.9	17552.2	17286.1	17512.5	18214.9	19155.0	19636.5
16°	18696.3	18435.8	17733.4	17121.7	16901.0	17082.1	17722.2	18588.8	19047.5
17°	18073.3	17835.4	17252.0	16697.0	16498.8	16674.4	17218.0	18016.7	18430.1
18°	17450.3	17252.0	16725.4	16249.6	16074.0	16232.6	16719.7	17439.0	17812.7
19°	16872.6	16691.3	16243.9	15841.8	15683.2	15824.7	16283.6	16883.9	17257.7
20°	16277.9	16130.6	15739.8	15411.3	15264.0	15394.3	15751.1	16334.6	16663.0
21°	15705.8	15575.5	15235.7	14958.1	14839.2	14946.9	15275.4	15802.1	16090.9
22°	15111.1	15037.6	14731.7	14499.4	14420.2	14488.1	14788.2	15241.4	15513.3
23°	14527.7	14459.8	14227.5	14035.0	13967.0	14035.0	14301.2	14709.0	14952.6
24°	13938.7	13865.1	13695.2	13570.5	13514.0	13570.5	13797.1	14142.6	14374.8
25°	13264.8	13253.4	13134.5	13066.5	13038.2	13100.4	13259.1	13559.3	13751.8
26°	12619.0	12585.0	12551.1	12539.7	12545.4	12579.3	12709.6	12936.2	13089.2
27°	11826.1	11877.1	11928.0	11996.0	12018.6	12047.0	12109.3	12273.5	12386.8
28°	11067.1	11163.4	11288.0	11424.0	11486.3	11486.3	11491.9	11582.5	11678.8
29°	10313.9	10415.8	10614.1	10817.9	10902.9	10891.5	10846.2	10885.8	10942.5
30°	9526.6	9656.9	9923.1	10189.3	10313.9	10268.6	10183.6	10144.0	10177.9
31°	8756.3	8886.6	9181.1	9469.9	9634.1	9583.3	9436.0	9407.7	9424.6
32°	8020.0	8150.3	8422.1	8727.9	8914.9	8847.0	8694.0	8648.7	8654.3
33°	7306.3	7408.3	7657.5	7940.8	8093.6	8076.6	7952.0	7895.4	7901.0
34°	6632.4	6717.3	6904.2	7119.5	7266.7	7261.0	7170.4	7176.1	7193.1
35°	6032.0	6077.4	6167.9	6286.9	6377.5	6428.4	6439.8	6485.1	6541.8
37.5°	4559.4	4576.3	4468.8	4349.8	4327.2	4474.5	4729.3	4950.2	5035.2
40°	3160.4	3120.8	2984.8	2775.3	2712.9	2877.3	3200.1	3511.6	3624.8
42.5°	1965.4	1948.4	1863.4	1704.9	1648.2	1744.5	1988.0	2225.9	2339.2
45°	1172.4	1149.7	1104.4	1042.2	1030.8	1070.4	1195.0	1331.0	1393.3
47.5°	673.9	668.4	640.0	617.4	611.7	640.0	696.7	775.9	793.0
50°	368.1	362.5	356.9	356.9	356.9	373.8	402.2	424.8	436.1
52.5°	181.3	186.9	181.3	186.9	192.6	203.9	198.2	220.9	220.9
55°	90.6	85.0	96.3	107.7	107.7	107.7	107.7	107.7	102.0
57.5°	67.9	73.6	62.4	67.9	62.4	62.4	56.7	62.4	67.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	45.3	39.6	45.3	51.0	56.7	51.0	39.6	45.3	51.0
62.5°	22.6	22.6	22.6	34.0	51.0	39.6	34.0	28.3	28.3
65°	34.0	22.6	28.3	34.0	28.3	28.3	22.6	28.3	22.6
67.5°	17.0	28.3	17.0	11.4	17.0	22.6	17.0	11.4	11.4
70°	0.0	5.7	5.7	17.0	17.0	17.0	17.0	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)