

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: P248056

Luminaire Tested: **LD8B200D010 ER8B200827 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21618.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

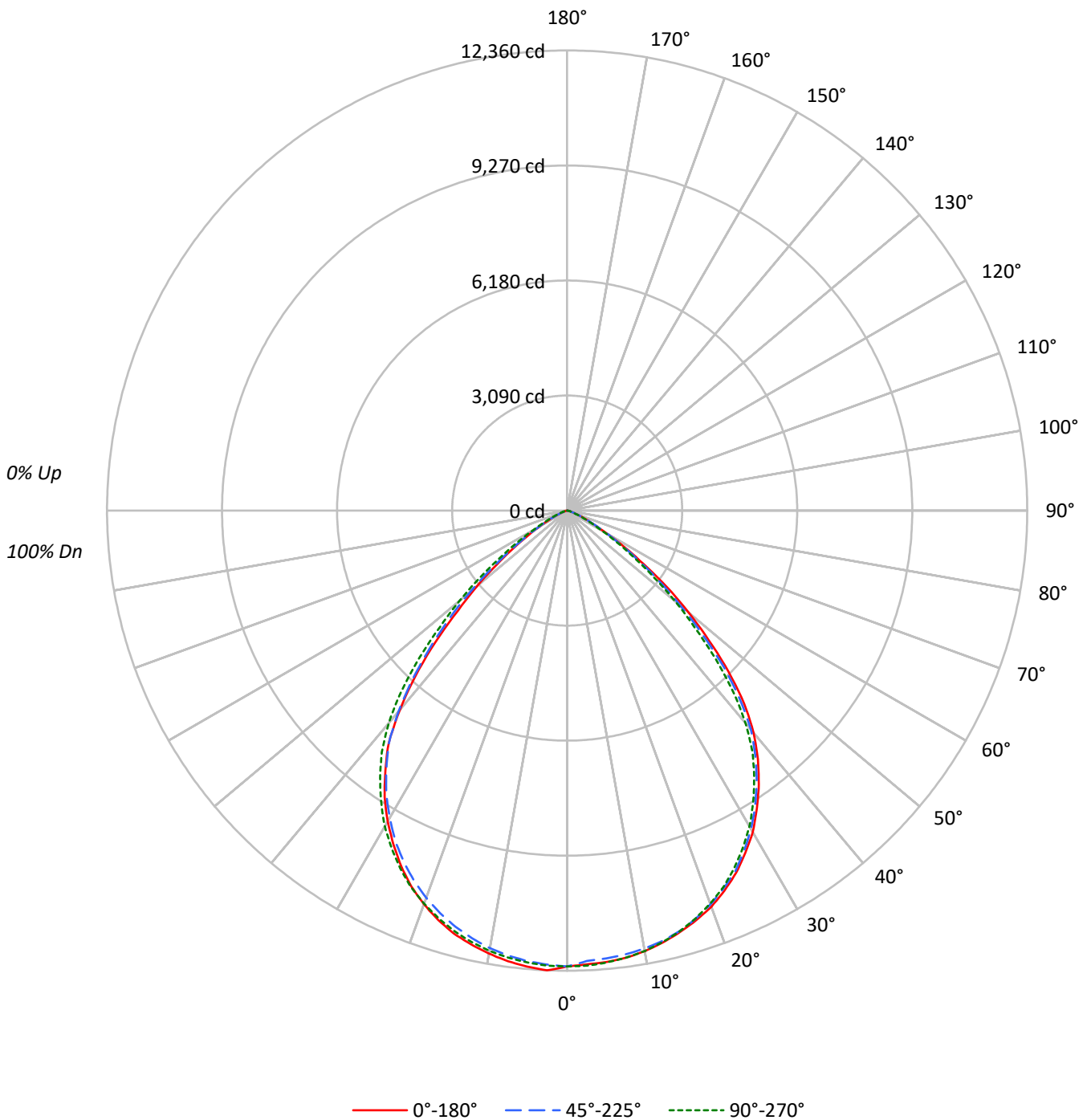
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	377566	377566	377566
5°	376804	377191	380553
10°	376273	376039	378346
15°	374103	373426	375459
20°	371601	368651	369225
25°	365324	360948	358781
30°	355067	348796	343284
35°	337879	329748	320582
40°	313759	300290	281745
45°	267442	246152	218547
50°	203640	181419	151354
55°	134242	116996	94238
60°	75382	66298	52052
65°	39540	35344	25144
70°	18915	16661	10468
75°	10711	11604	7292
80°	8204	7973	4209
85°	4847	3963	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1156.3	5.3
10°-20°	3293.5	15.2
20°-30°	4865.5	22.5
30°-40°	5422.1	25.1
40°-50°	4282.0	19.8
50°-60°	1977.4	9.1
60°-70°	508.0	2.3
70°-80°	97.8	0.5
80°-90°	15.3	0.1
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°	9315.3	43.1
0°-40°	14737.4	68.2
0°-60°	20996.8	97.1
0°-90°	21618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21618.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12244	12244	12244	12244	12244	
5°	12173	12076	12186	12148	12294	###
15°	11718	11691	11697	11575	11761	3307
25°	10737	10687	10609	10396	10545	4934
35°	8976	8876	8760	8467	8516	5589
45°	6133	5954	5644	5194	5012	4681
55°	2497	2353	2176	1863	1753	2314
65°	542	549	484	371	345	595
75°	90	95	97	74	61	108
85°	14	14	11	6	5	19
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°	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2
2.5°	12198.0	12255.4	12109.3	12227.9	12232.9	12149.3	12206.7	12275.4	12360.3
5°	12173.0	12231.7	12075.6	12185.5	12185.5	12094.3	12148.0	12208.0	12294.1
7.5°	12114.3	12178.0	12024.4	12126.8	12110.6	12010.7	12058.1	12116.8	12209.2
10°	12016.9	12095.6	11945.8	12043.2	12009.4	11894.6	11935.8	11997.0	12083.1
12.5°	11883.3	11977.0	11837.2	11922.1	11868.4	11737.3	11771.0	11849.6	11934.5
15°	11718.5	11814.7	11691.1	11764.7	11697.3	11551.2	11575.0	11654.9	11761.0
17.5°	11535.0	11628.7	11490.1	11570.0	11480.1	11329.0	11337.7	11430.1	11526.3
20°	11324.0	11401.4	11259.1	11335.3	11234.1	11068.1	11069.3	11151.7	11251.6
22.5°	11046.8	11128.0	10980.7	11044.3	10952.0	10774.7	10753.4	10833.3	10929.5
25°	10737.2	10822.1	10687.3	10709.7	10608.6	10425.1	10396.4	10455.0	10544.9
27.5°	10366.4	10450.1	10297.7	10326.5	10215.3	10039.3	10000.6	10031.8	10103.0
30°	9971.9	10024.3	9879.5	9903.2	9795.8	9587.3	9528.7	9571.1	9641.0
32.5°	9486.2	9523.7	9400.1	9412.5	9296.4	9116.6	9039.2	9051.7	9122.9
35°	8975.6	8995.5	8875.7	8878.2	8759.6	8577.3	8467.4	8461.2	8516.1
37.5°	8412.5	8426.2	8305.1	8298.9	8176.5	7979.2	7864.4	7844.4	7878.1
40°	7794.5	7813.2	7687.1	7647.1	7459.9	7235.1	7047.9	7012.9	6999.2
42.5°	7045.4	6994.2	6861.8	6794.4	6605.9	6317.5	6143.9	6091.5	6046.5
45°	6132.7	6091.5	5954.2	5801.8	5644.5	5427.3	5193.8	5050.2	5011.5
47.5°	5175.1	5126.4	4929.1	4795.5	4640.7	4540.8	4289.9	4068.9	3972.8
50°	4244.9	4191.3	3971.5	3872.9	3781.7	3633.2	3389.7	3191.2	3155.0
52.5°	3384.7	3303.6	3115.0	3012.7	2931.5	2766.7	2547.0	2432.1	2370.9
55°	2497.0	2484.5	2353.4	2279.8	2176.2	2045.1	1862.8	1776.6	1752.9
57.5°	1819.1	1772.9	1722.9	1660.5	1570.6	1405.8	1293.5	1228.5	1223.5
60°	1222.3	1237.3	1237.3	1168.6	1075.0	967.6	877.7	842.7	844.0
62.5°	820.3	830.3	827.8	797.8	725.4	638.0	579.3	554.3	555.6
65°	541.9	539.4	549.3	528.1	484.4	423.2	370.8	357.1	344.6
67.5°	344.6	348.3	344.6	333.4	307.1	263.4	228.5	207.3	201.0
70°	209.8	204.8	206.0	203.5	184.8	163.6	138.6	121.1	116.1
72.5°	126.1	129.8	131.1	134.8	132.3	117.4	99.9	87.4	84.9
75°	89.9	91.1	94.9	98.6	97.4	87.4	73.7	64.9	61.2
77.5°	67.4	67.4	69.9	74.9	71.2	62.4	52.4	44.9	42.4
80°	46.2	47.4	48.7	48.7	44.9	40.0	31.2	26.2	23.7
82.5°	27.5	28.7	27.5	27.5	25.0	20.0	15.0	13.7	12.5
85°	13.7	13.7	13.7	13.7	11.2	8.7	6.2	5.0	5.0
87.5°	6.2	6.2	6.2	5.0	3.7	2.5	2.5	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)