

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: P248191

Luminaire Tested: **LD8B200D010 ER8B200950 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200950 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17821.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

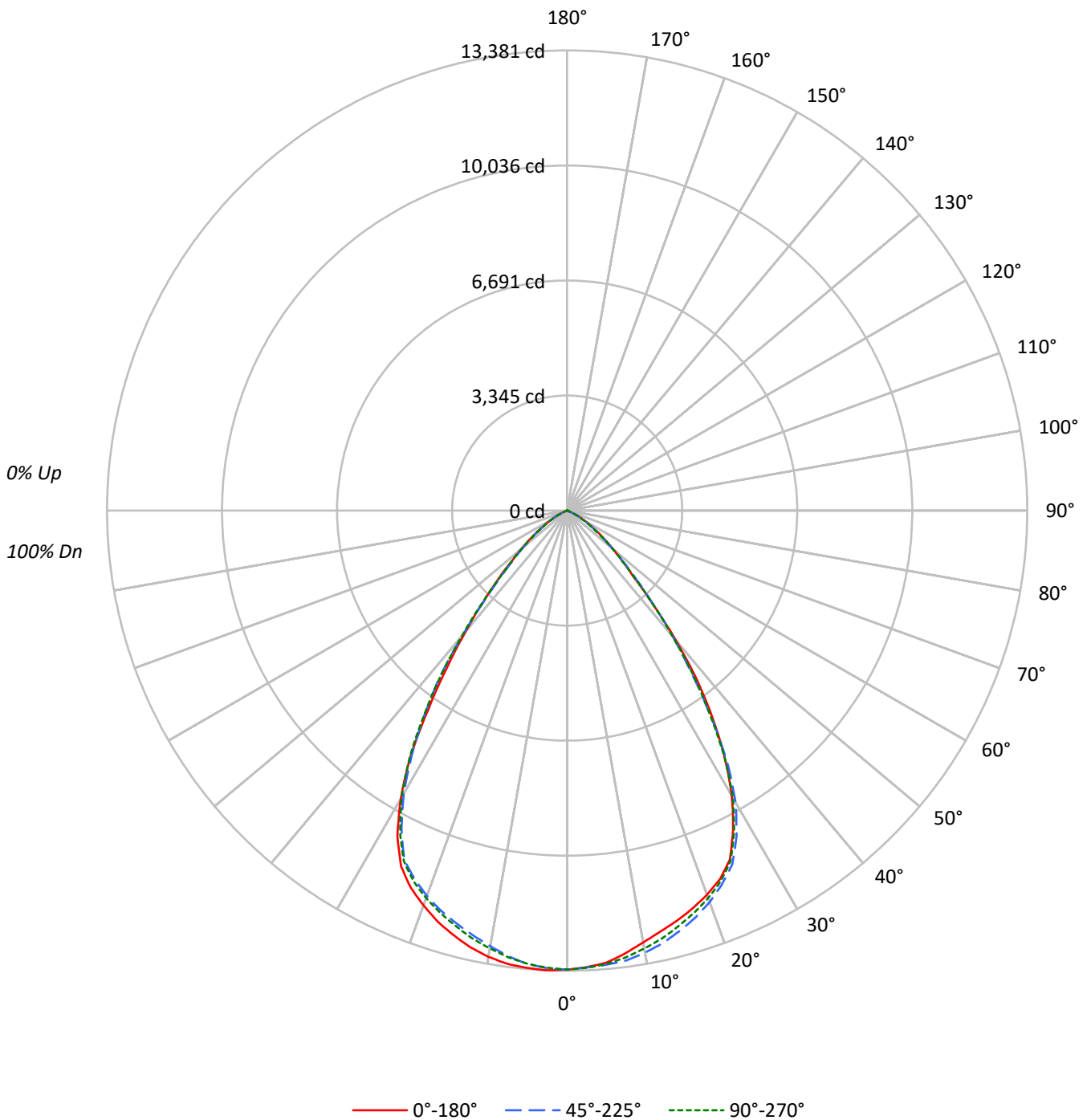
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85					84				
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60					58				
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55					53				
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47					45				
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	411594	411594	411594
5°	408418	409557	413278
10°	399228	404877	412561
15°	394103	399393	407971
20°	390082	393505	400875
25°	380944	382489	388586
30°	340981	342729	344652
35°	277889	272299	264258
40°	197063	191581	184516
45°	120152	122184	124648
50°	83012	81482	83190
55°	56347	52385	54036
60°	36560	31866	33451
65°	19255	15315	16475
70°	5094	4319	3877
75°	882	1751	1025
80°	0	0	444
85°	885	885	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1255.0	7.0
10°-20°	3535.5	19.8
20°-30°	5098.3	28.6
30°-40°	4477.5	25.1
40°-50°	2264.1	12.7
50°-60°	926.7	5.2
60°-70°	243.6	1.4
70°-80°	17.2	0.1
80°-90°	3.1	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°	9888.8	55.5
0°-40°	14366.3	80.6
0°-60°	17557.1	98.5
0°-90°	17821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17821.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13348	13348	13348	13348	13348	
5°	13194	13254	13231	13231	13351	###
15°	12345	12651	12511	12430	12779	3483
25°	11196	11357	11242	11201	11421	5058
35°	7382	7256	7234	7203	7020	4551
45°	2755	2884	2802	2731	2858	2273
55°	1048	1006	974	972	1005	969
65°	264	234	210	207	226	270
75°	7	5	15	5	9	19
85°	2	2	2	1	2	5
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°	13347.7	13347.7	13347.7	13347.7	13347.7	13347.7	13347.7	13347.7	13347.7
2.5°	13286.3	13351.3	13293.7	13328.0	13304.7	13266.7	13319.4	13294.9	13380.8
5°	13194.3	13272.8	13254.4	13297.3	13231.1	13161.1	13231.1	13237.2	13351.3
7.5°	12984.4	13119.4	13196.7	13248.3	13102.2	12988.1	13071.5	13146.4	13293.7
10°	12750.0	12913.2	13053.1	13132.9	12930.4	12763.5	12862.9	12990.5	13175.8
12.5°	12534.0	12714.4	12880.1	12957.4	12743.9	12556.1	12650.6	12808.9	13007.7
15°	12345.0	12493.5	12650.6	12730.4	12510.7	12332.7	12429.7	12575.7	12779.4
17.5°	12129.0	12268.9	12407.6	12470.2	12266.5	12111.8	12200.2	12325.4	12527.9
20°	11887.2	12007.5	12113.0	12186.7	11991.5	11844.3	11924.0	12040.6	12216.1
22.5°	11603.7	11694.5	11763.3	11829.5	11671.2	11525.2	11593.9	11686.0	11871.3
25°	11196.3	11288.3	11357.1	11431.9	11241.7	11116.5	11201.2	11240.5	11420.9
27.5°	10450.1	10566.7	10669.8	10736.1	10518.8	10410.8	10432.9	10498.0	10689.4
30°	9576.3	9632.8	9789.8	9809.5	9625.4	9437.6	9497.8	9566.5	9679.4
32.5°	8538.0	8569.9	8660.8	8670.6	8533.1	8388.3	8389.5	8358.9	8473.0
35°	7382.0	7309.6	7255.6	7292.4	7233.5	7259.2	7202.8	7061.6	7019.9
37.5°	6187.8	6141.2	5904.3	5885.9	6023.4	6106.8	6051.6	5737.4	5715.3
40°	4895.5	4842.8	4754.4	4740.9	4759.3	4807.2	4705.3	4612.0	4583.8
42.5°	3663.4	3691.6	3719.8	3745.6	3692.8	3589.7	3584.8	3567.6	3633.9
45°	2755.2	2815.3	2884.1	2918.4	2801.8	2722.1	2730.7	2768.7	2858.3
47.5°	2178.4	2190.7	2216.4	2245.9	2177.2	2075.3	2102.3	2163.7	2202.9
50°	1730.4	1742.7	1735.3	1731.7	1698.5	1637.2	1675.2	1720.6	1734.1
52.5°	1364.7	1348.8	1335.3	1326.7	1305.8	1281.3	1288.6	1326.7	1347.5
55°	1048.1	1035.8	1006.4	994.1	974.4	968.3	972.0	1001.4	1005.1
57.5°	787.9	770.7	741.3	717.9	719.2	709.4	714.3	735.1	746.2
60°	592.8	581.7	530.2	533.9	516.7	514.2	525.3	537.5	542.4
62.5°	409.9	413.6	374.3	369.4	360.8	362.0	369.4	379.2	380.5
65°	263.9	247.9	234.4	224.6	209.9	202.5	207.4	234.4	225.8
67.5°	103.1	109.2	88.4	103.1	95.7	81.0	93.3	104.3	99.4
70°	56.5	57.7	47.9	45.4	47.9	44.2	50.3	56.5	43.0
72.5°	35.6	35.6	25.8	25.8	33.1	22.1	25.8	40.5	31.9
75°	7.4	8.6	4.9	2.5	14.7	7.4	4.9	14.7	8.6
77.5°	0.0	8.6	0.0	0.0	0.0	0.0	2.5	2.5	2.5
80°	0.0	0.0	0.0	3.7	0.0	0.0	0.0	2.5	2.5
82.5°	0.0	2.5	0.0	0.0	0.0	0.0	0.0	2.5	0.0
85°	2.5	9.8	2.5	0.0	2.5	2.5	1.2	7.4	2.5
87.5°	16.0	7.4	1.2	7.4	6.1	7.4	8.6	7.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)