

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: P248185

Luminaire Tested: **LD8B200D010 ER8B200935 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248185
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 ER8B200935 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16480.0 lumens
Efficiency: N/A
Efficacy: 73.8 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

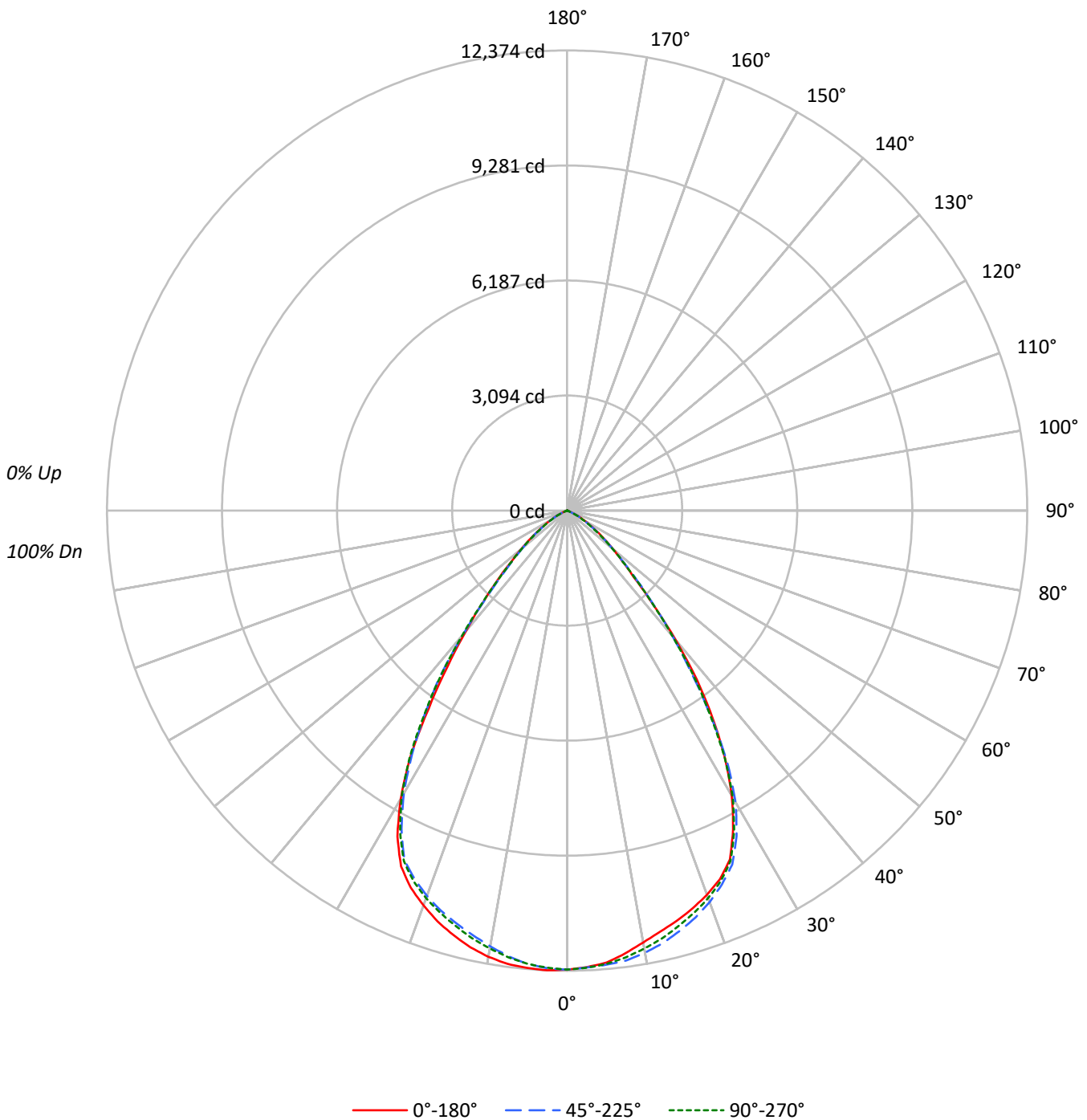
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	380622	380622	380622
5°	377683	378739	382181
10°	369187	374410	381518
15°	364449	369340	377273
20°	360729	363896	370711
25°	352279	353708	359346
30°	315322	316939	318716
35°	256978	251810	244375
40°	182238	177166	170632
45°	111112	112991	115268
50°	76766	75351	76929
55°	52106	48444	49971
60°	33809	29467	30935
65°	17803	14162	15235
70°	4706	3994	3579
75°	810	1620	941
80°	0	0	408
85°	814	814	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.6	7.0
10°-20°	3269.5	19.8
20°-30°	4714.7	28.6
30°-40°	4140.6	25.1
40°-50°	2093.7	12.7
50°-60°	857.0	5.2
60°-70°	225.3	1.4
70°-80°	15.9	0.1
80°-90°	2.9	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°	9144.7	55.5
0°-40°	13285.3	80.6
0°-60°	16236.0	98.5
0°-90°	16480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16480.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12343	12343	12343	12343	12343	
5°	12201	12257	12236	12236	12347	###
15°	11416	11699	11569	11494	11818	3221
25°	10354	10502	10396	10358	10562	4678
35°	6826	6710	6689	6661	6492	4209
45°	2548	2667	2591	2525	2643	2102
55°	969	931	901	899	930	896
65°	244	217	194	192	209	249
75°	7	4	14	4	8	17
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°	12343.3	12343.3	12343.3	12343.3	12343.3	12343.3	12343.3	12343.3	12343.3
2.5°	12286.5	12346.7	12293.3	12325.1	12303.6	12268.4	12317.2	12294.5	12373.9
5°	12201.4	12274.0	12257.0	12296.7	12235.5	12170.8	12235.5	12241.1	12346.7
7.5°	12007.3	12132.2	12203.7	12251.3	12116.3	12010.7	12087.9	12157.2	12293.3
10°	11790.6	11941.5	12070.9	12144.7	11957.4	11803.1	11895.0	12013.0	12184.4
12.5°	11590.8	11757.7	11910.9	11982.4	11784.9	11611.3	11698.6	11845.1	12028.9
15°	11416.1	11553.4	11698.6	11772.4	11569.3	11404.7	11494.4	11629.4	11817.8
17.5°	11216.3	11345.7	11473.9	11531.8	11343.4	11200.4	11282.1	11397.9	11585.2
20°	10992.7	11104.0	11201.6	11269.7	11089.2	10953.0	11026.8	11134.6	11296.9
22.5°	10730.6	10814.6	10878.1	10939.4	10793.0	10657.9	10721.5	10806.6	10978.0
25°	10353.8	10438.9	10502.5	10571.7	10395.8	10280.0	10358.3	10394.6	10561.5
27.5°	9663.8	9771.6	9866.9	9928.2	9727.3	9627.4	9647.9	9708.0	9885.1
30°	8855.7	8907.9	9053.2	9071.3	8901.1	8727.5	8783.1	8846.6	8951.0
32.5°	7895.6	7925.1	8009.1	8018.1	7891.0	7757.1	7758.2	7729.9	7835.4
35°	6826.5	6759.5	6709.6	6743.6	6689.2	6713.0	6660.8	6530.3	6491.7
37.5°	5722.2	5679.1	5460.0	5443.0	5570.1	5647.3	5596.2	5305.7	5285.3
40°	4527.2	4478.4	4396.6	4384.2	4401.2	4445.4	4351.2	4265.0	4238.9
42.5°	3387.7	3413.8	3439.9	3463.7	3414.9	3319.6	3315.1	3299.2	3360.5
45°	2547.9	2603.5	2667.0	2698.8	2591.0	2517.2	2525.2	2560.4	2643.2
47.5°	2014.5	2025.8	2049.6	2076.9	2013.3	1919.1	1944.1	2000.8	2037.2
50°	1600.2	1611.6	1604.8	1601.4	1570.7	1514.0	1549.2	1591.1	1603.6
52.5°	1262.0	1247.3	1234.8	1226.8	1207.5	1184.8	1191.7	1226.8	1246.1
55°	969.2	957.9	930.6	919.3	901.1	895.4	898.8	926.1	929.5
57.5°	728.6	712.7	685.5	663.9	665.1	656.0	660.5	679.8	690.0
60°	548.2	537.9	490.3	493.7	477.8	475.5	485.7	497.1	501.6
62.5°	379.1	382.5	346.1	341.6	333.7	334.8	341.6	350.7	351.8
65°	244.0	229.3	216.8	207.7	194.1	187.3	191.8	216.8	208.8
67.5°	95.3	101.0	81.7	95.3	88.5	74.9	86.3	96.5	91.9
70°	52.2	53.3	44.3	42.0	44.3	40.9	46.5	52.2	39.7
72.5°	32.9	32.9	23.8	23.8	30.6	20.4	23.8	37.5	29.5
75°	6.8	7.9	4.5	2.3	13.6	6.8	4.5	13.6	7.9
77.5°	0.0	7.9	0.0	0.0	0.0	0.0	2.3	2.3	2.3
80°	0.0	0.0	0.0	3.4	0.0	0.0	0.0	2.3	2.3
82.5°	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.3	0.0
85°	2.3	9.1	2.3	0.0	2.3	2.3	1.1	6.8	2.3
87.5°	14.8	6.8	1.1	6.8	5.7	6.8	7.9	6.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)