

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: P247903

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200950 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22258.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

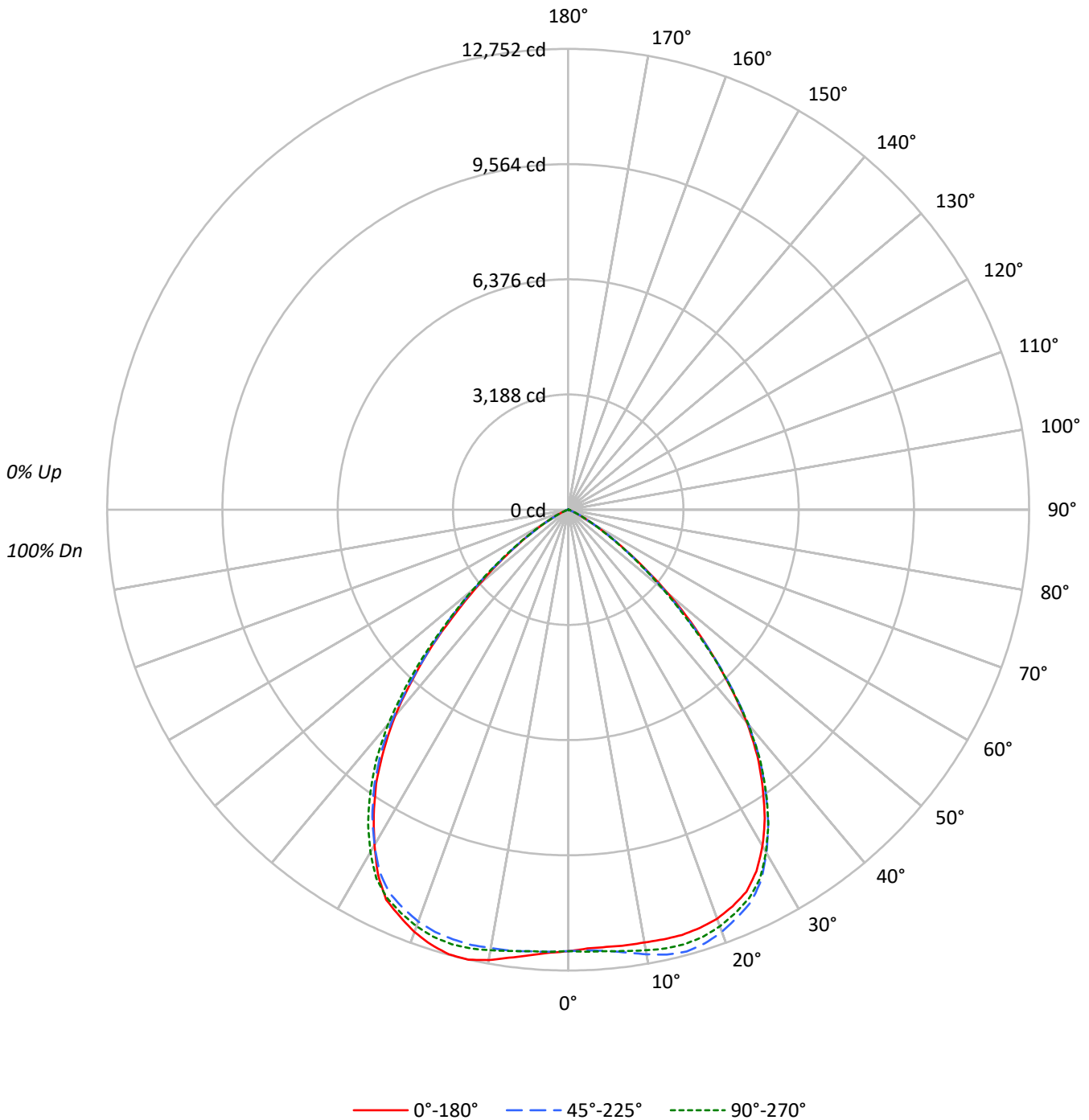
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	376696	376696	376696
5°	375969	379578	383110
10°	380701	387655	396263
15°	388925	397350	406595
20°	395274	402562	408121
25°	396806	403278	405241
30°	382751	389438	381398
35°	353001	359193	348615
40°	309501	311819	299964
45°	243029	241049	231844
50°	172678	164614	153369
55°	102727	99034	92765
60°	51546	49424	49048
65°	21671	20861	21401
70°	8078	6969	6753
75°	3217	3515	3515
80°	3711	2610	870
85°	3892	7395	3043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1174.8	5.3
10°-20°	3517.5	15.8
20°-30°	5406.0	24.3
30°-40°	5848.2	26.3
40°-50°	4215.3	18.9
50°-60°	1711.1	7.7
60°-70°	341.8	1.5
70°-80°	34.2	0.2
80°-90°	9.2	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°	10098.2	45.4
0°-40°	15946.5	71.6
0°-60°	21872.9	98.3
0°-90°	22258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12216	12216	12216	12216	12216	
5°	12146	12249	12263	12268	12377	###
15°	12183	12655	12447	12308	12736	3442
25°	11662	11973	11853	11700	11910	5331
35°	9377	9515	9542	9347	9261	5823
45°	5573	5600	5528	5342	5316	4298
55°	1911	1852	1842	1780	1726	1792
65°	297	322	286	272	293	354
75°	27	33	30	28	30	35
85°	11	16	21	10	9	9
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°	12216.0	12216.0	12216.0	12216.0	12216.0	12216.0	12216.0	12216.0	12216.0
2.5°	12153.4	12230.7	12204.9	12171.8	12241.7	12228.2	12243.0	12249.1	12272.4
5°	12146.0	12233.1	12249.1	12213.5	12262.6	12239.3	12267.5	12320.3	12376.7
7.5°	12158.3	12289.6	12358.3	12337.5	12314.1	12234.4	12308.0	12429.5	12504.4
10°	12158.3	12332.5	12492.1	12490.9	12380.4	12231.9	12314.1	12524.0	12655.3
12.5°	12177.9	12391.5	12609.9	12624.6	12436.9	12249.1	12337.5	12585.4	12752.3
15°	12182.8	12392.7	12655.3	12662.7	12446.7	12225.8	12308.0	12574.3	12736.3
17.5°	12131.3	12333.8	12582.9	12608.7	12391.5	12166.9	12250.3	12488.4	12617.3
20°	12045.4	12227.0	12429.5	12472.5	12267.5	12054.0	12127.6	12332.5	12436.9
22.5°	11880.9	12046.6	12213.5	12245.4	12081.0	11894.4	11931.2	12090.8	12177.9
25°	11662.5	11826.9	11973.0	11990.1	11852.7	11685.8	11700.5	11822.0	11910.4
27.5°	11274.7	11430.5	11563.1	11583.9	11501.7	11323.8	11296.8	11354.4	11391.3
30°	10749.4	10856.2	10966.6	11032.9	10937.2	10789.9	10713.8	10744.5	10711.4
32.5°	10118.6	10227.8	10295.3	10316.2	10301.5	10172.6	10083.0	10005.7	10010.6
35°	9377.3	9476.8	9514.8	9552.8	9541.8	9441.2	9346.7	9274.3	9260.8
37.5°	8600.5	8666.8	8709.7	8739.2	8714.6	8650.8	8528.1	8402.9	8382.1
40°	7688.7	7789.3	7754.9	7769.7	7746.3	7665.3	7542.6	7471.4	7451.8
42.5°	6618.5	6706.9	6699.5	6704.4	6652.9	6542.4	6435.7	6396.4	6375.5
45°	5572.9	5615.9	5599.9	5548.4	5527.5	5458.8	5342.2	5267.3	5316.4
47.5°	4588.7	4573.9	4467.2	4425.4	4394.8	4404.6	4378.8	4247.5	4176.3
50°	3599.5	3561.5	3459.6	3397.0	3431.4	3458.4	3362.6	3284.1	3197.0
52.5°	2669.2	2676.6	2579.7	2510.9	2542.8	2547.8	2491.3	2447.1	2421.3
55°	1910.8	1910.8	1851.9	1829.8	1842.1	1818.8	1779.5	1764.8	1725.5
57.5°	1299.6	1308.2	1304.6	1278.8	1221.1	1200.2	1178.2	1200.2	1213.7
60°	835.8	856.6	852.9	850.5	801.4	752.3	773.2	792.8	795.3
62.5°	514.2	524.0	541.2	526.5	501.9	462.7	457.8	487.2	514.2
65°	297.0	308.0	321.5	311.7	285.9	279.8	272.4	288.4	293.3
67.5°	169.4	164.5	165.7	158.3	151.0	142.4	143.6	151.0	162.0
70°	89.6	77.3	78.5	71.2	77.3	68.7	66.3	72.4	74.9
72.5°	45.4	44.2	50.3	50.3	54.0	47.9	47.9	45.4	51.5
75°	27.0	30.7	33.1	36.8	29.5	28.2	28.2	28.2	29.5
77.5°	7.4	3.7	4.9	16.0	6.1	12.3	6.1	4.9	11.0
80°	20.9	12.3	7.4	13.5	14.7	7.4	18.4	17.2	4.9
82.5°	7.4	0.0	13.5	14.7	12.3	12.3	14.7	14.7	13.5
85°	11.0	7.4	16.0	18.4	20.9	12.3	9.8	6.1	8.6
87.5°	4.9	0.0	7.4	6.1	3.7	1.2	3.7	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)