

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: P247969

Luminaire Tested: **LD8B200D010 ER8B200935 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20006.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

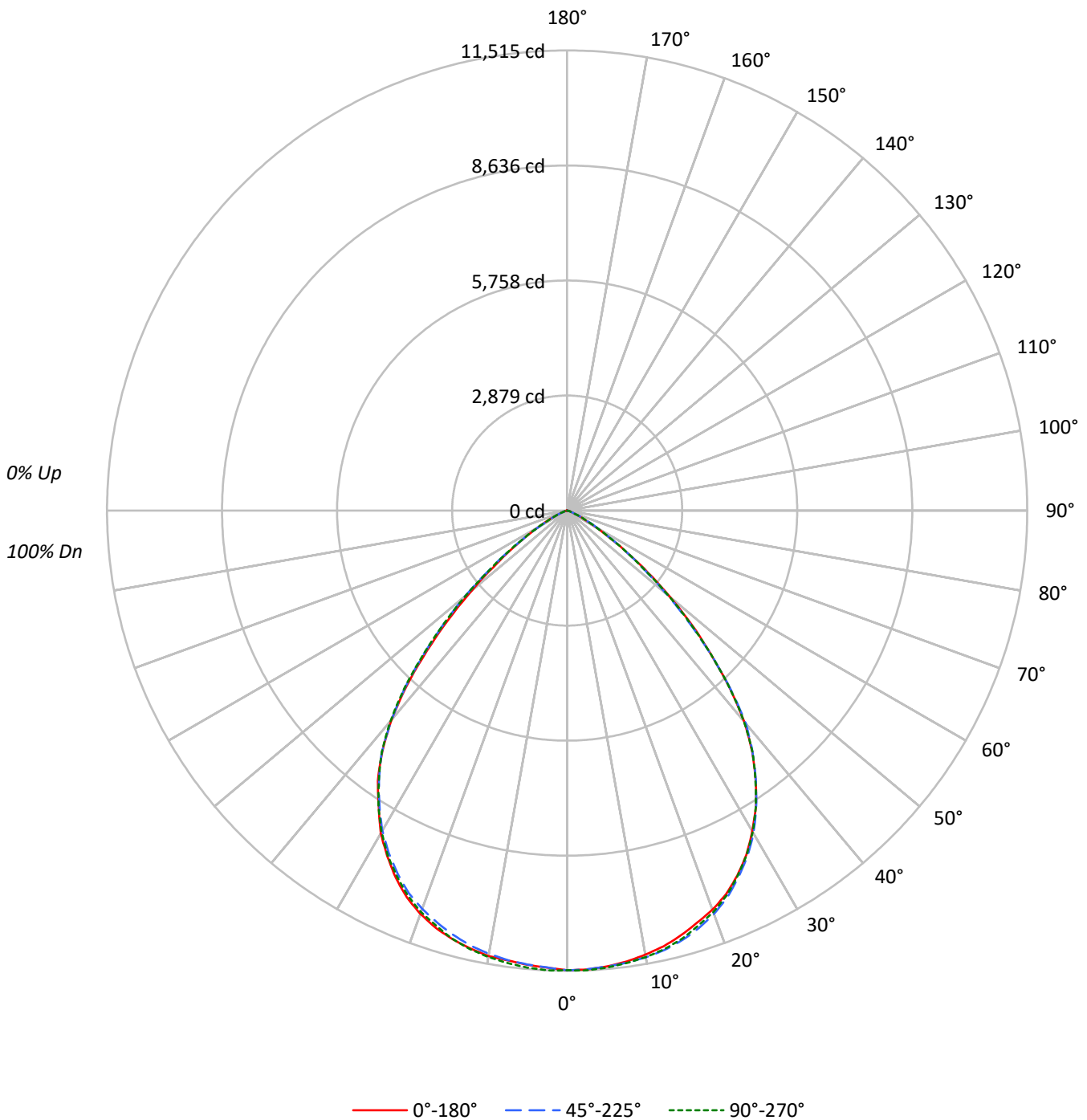
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	354726	354726	354726
5°	354465	355307	353165
10°	353234	355188	354405
15°	351334	354160	354415
20°	348778	350825	352391
25°	342858	343245	345175
30°	329871	330601	332093
35°	309699	309145	310937
40°	277672	276943	274979
45°	221779	221726	216136
50°	160287	158761	149618
55°	98233	97502	93045
60°	50467	52428	51657
65°	24596	25589	26005
70°	10540	10846	10332
75°	8245	8245	7172
80°	4439	4031	3623
85°	3609	2406	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.1	5.4
10°-20°	3124.1	15.6
20°-30°	4641.2	23.2
30°-40°	5114.7	25.6
40°-50°	3895.7	19.5
50°-60°	1679.3	8.4
60°-70°	385.8	1.9
70°-80°	64.1	0.3
80°-90°	12.0	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°	8854.3	44.3
0°-40°	13969.0	69.8
0°-60°	19544.1	97.7
0°-90°	20006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20006.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11504	11504	11504	11504	11504	
5°	11451	11450	11478	11401	11409	###
15°	11005	11128	11094	10995	11102	3104
25°	10077	10134	10088	10029	10145	4625
35°	8227	8232	8212	8205	8260	5108
45°	5086	5075	5084	5057	4956	3923
55°	1827	1826	1814	1825	1731	1704
65°	337	370	351	348	356	377
75°	69	69	69	70	60	64
85°	10	7	7	20	15	10
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°	11503.5	11503.5	11503.5	11503.5	11503.5	11503.5	11503.5	11503.5	11503.5
2.5°	11491.0	11492.2	11484.2	11501.2	11514.9	11470.6	11444.5	11503.5	11446.8
5°	11451.3	11459.3	11450.2	11471.7	11478.5	11442.2	11401.4	11464.9	11409.3
7.5°	11383.2	11399.1	11412.7	11437.7	11419.5	11374.1	11346.9	11421.8	11353.7
10°	11281.1	11320.8	11350.3	11387.8	11343.5	11294.7	11261.8	11363.9	11318.5
12.5°	11166.4	11211.8	11261.8	11307.2	11240.2	11168.7	11151.7	11260.6	11219.8
15°	11005.3	11047.3	11127.9	11171.0	11093.8	11012.1	10995.1	11133.5	11101.8
17.5°	10815.8	10889.5	10957.6	10991.7	10894.1	10823.7	10814.6	10957.6	10945.1
20°	10628.5	10668.2	10738.6	10784.0	10690.9	10606.9	10603.5	10751.1	10738.6
22.5°	10391.3	10426.5	10473.0	10515.0	10427.6	10357.2	10361.8	10483.2	10481.0
25°	10076.9	10100.8	10133.7	10180.2	10088.3	10038.3	10029.3	10158.6	10145.0
27.5°	9710.3	9726.2	9763.7	9803.4	9724.0	9679.7	9663.8	9793.2	9747.8
30°	9264.3	9300.6	9326.7	9343.8	9284.8	9257.5	9246.2	9348.3	9326.7
32.5°	8791.1	8803.5	8804.7	8846.7	8784.3	8745.7	8745.7	8827.4	8778.6
35°	8227.0	8224.7	8231.5	8276.9	8212.3	8225.9	8205.4	8270.1	8259.9
37.5°	7608.5	7618.7	7621.0	7657.3	7621.0	7630.0	7622.1	7632.3	7599.4
40°	6898.0	6942.3	6957.0	6950.2	6879.9	6856.0	6835.6	6873.1	6831.1
42.5°	6016.2	6036.6	6038.9	6043.4	6024.1	6020.7	5995.8	6011.7	5945.8
45°	5085.6	5094.6	5075.3	5071.9	5084.4	5103.7	5057.2	5020.9	4956.2
47.5°	4235.5	4203.7	4116.3	4148.1	4161.7	4210.5	4160.6	4063.0	4009.7
50°	3341.2	3308.3	3241.3	3256.1	3309.4	3383.2	3325.3	3190.3	3118.8
52.5°	2552.4	2515.0	2440.1	2453.7	2469.6	2525.2	2494.5	2402.6	2333.4
55°	1827.2	1801.1	1826.1	1805.7	1813.6	1866.9	1824.9	1748.9	1730.7
57.5°	1234.8	1249.5	1270.0	1273.4	1257.5	1241.6	1235.9	1206.4	1222.3
60°	818.3	829.6	863.7	873.9	850.1	816.0	822.8	822.8	837.6
62.5°	528.9	539.1	578.8	585.6	551.6	542.5	542.5	539.1	566.3
65°	337.1	357.5	370.0	351.8	350.7	338.2	348.4	348.4	356.4
67.5°	202.0	183.9	196.3	204.3	196.3	186.1	183.9	185.0	196.3
70°	116.9	112.4	120.3	115.8	120.3	104.4	116.9	111.2	114.6
72.5°	74.9	73.8	73.8	78.3	73.8	71.5	76.0	65.8	72.6
75°	69.2	69.2	69.2	60.2	69.2	67.0	70.4	53.3	60.2
77.5°	27.2	31.8	38.6	37.5	37.5	35.2	31.8	27.2	42.0
80°	25.0	22.7	30.6	36.3	22.7	27.2	30.6	19.3	20.4
82.5°	12.5	11.3	14.8	14.8	14.8	7.9	20.4	12.5	10.2
85°	10.2	4.5	6.8	6.8	6.8	9.1	20.4	5.7	14.8
87.5°	2.3	3.4	5.7	5.7	6.8	11.3	20.4	4.5	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)