

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: P248092

Luminaire Tested: **LD8B200D010 ER8B200827 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20836.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

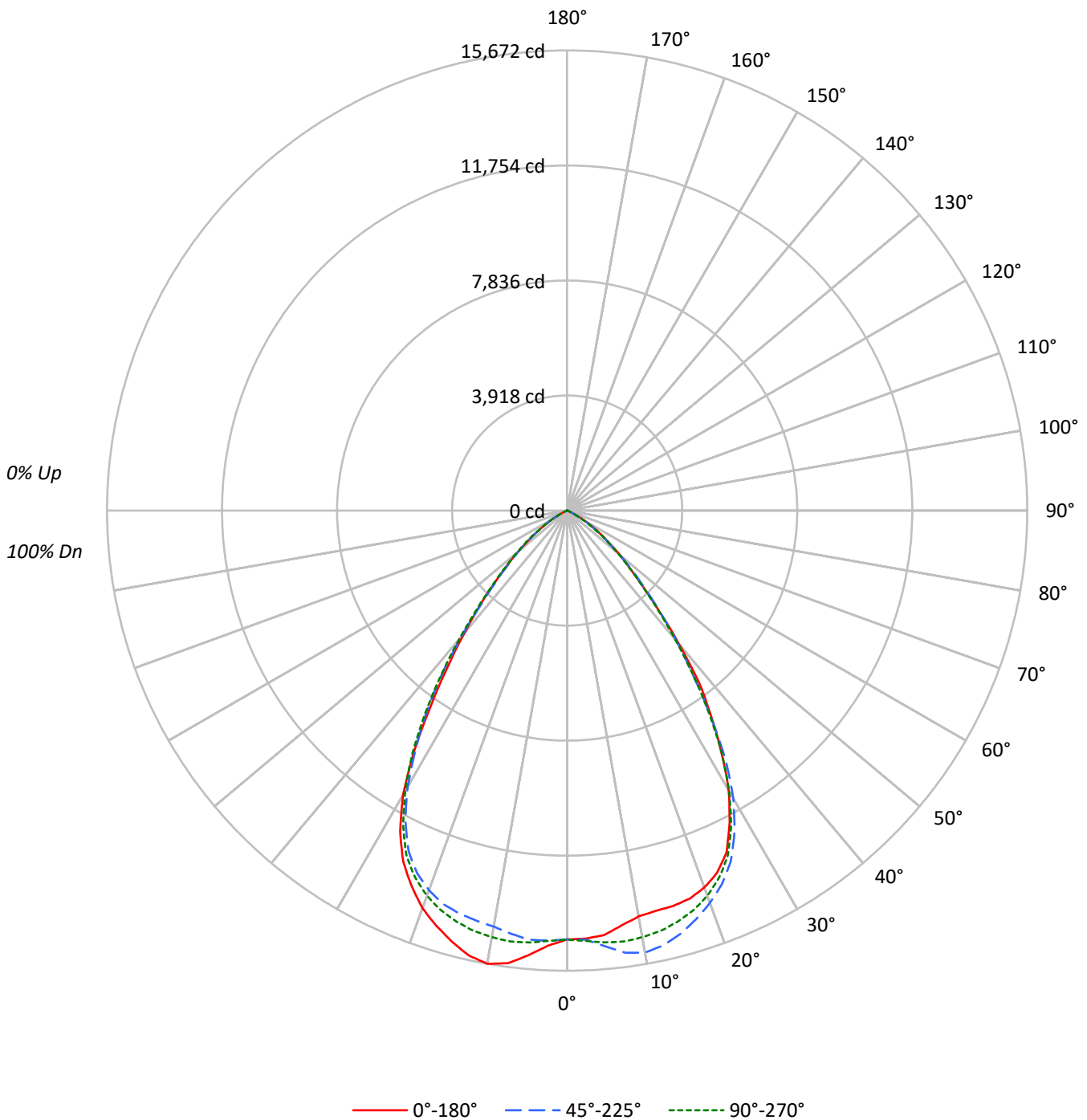
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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	81	88	84	80	86	82	79	83	80	78	76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	450426	450426	450426
5°	449095	456938	470580
10°	439430	461949	490719
15°	444952	463008	484969
20°	448280	458030	472859
25°	436798	440878	449329
30°	391813	392835	397549
35°	321884	317137	303416
40°	237808	230120	218362
45°	157726	156526	154184
50°	111580	106730	104211
55°	74567	67858	64164
60°	41962	36418	33186
65°	16213	11660	9653
70°	4724	2705	2254
75°	1334	739	894
80°	0	0	0
85°	885	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1413.0	6.8
10°-20°	4097.7	19.7
20°-30°	5884.5	28.2
30°-40°	5201.6	25.0
40°-50°	2847.3	13.7
50°-60°	1172.2	5.6
60°-70°	210.0	1.0
70°-80°	9.1	0.0
80°-90°	0.7	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°	11395.1	54.7
0°-40°	16596.7	79.7
0°-60°	20616.1	98.9
0°-90°	20836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20836.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14607	14607	14607	14607	14607	
5°	14508	14898	14762	14672	15202	###
15°	13938	14923	14503	14204	15191	3936
25°	12838	13185	12958	12787	13206	5807
35°	8551	8475	8425	8310	8060	5304
45°	3617	3723	3589	3436	3536	2911
55°	1387	1322	1262	1221	1194	1257
65°	222	174	160	129	132	259
75°	11	5	6	8	8	17
85°	2	2	0	8	0	1
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°	14607.0	14607.0	14607.0	14607.0	14607.0	14607.0	14607.0	14607.0	14607.0
2.5°	14588.3	14614.5	14627.0	14693.1	14670.7	14639.5	14656.9	14710.6	14826.7
5°	14508.4	14648.2	14897.9	14982.8	14761.8	14569.5	14671.9	14965.3	15202.5
7.5°	14244.9	14597.0	15187.5	15316.1	14804.2	14362.3	14540.8	15173.8	15548.3
10°	14033.9	14470.9	15282.4	15473.4	14753.1	14181.3	14389.8	15163.8	15671.9
12.5°	13962.8	14366.0	15162.6	15378.5	14666.9	14117.6	14301.1	15017.7	15514.6
15°	13937.8	14261.2	14922.9	15096.4	14503.4	14055.2	14203.7	14779.3	15191.3
17.5°	13860.4	14101.4	14594.5	14735.6	14278.6	13931.6	14046.4	14493.4	14824.2
20°	13660.7	13865.4	14220.0	14318.6	13957.8	13685.6	13759.3	14095.1	14409.7
22.5°	13348.5	13480.9	13768.0	13815.5	13529.6	13312.3	13358.5	13609.5	13839.2
25°	12837.9	12930.3	13185.0	13197.5	12957.8	12768.0	12786.7	12996.5	13206.2
27.5°	11979.0	12153.8	12341.0	12394.7	12093.8	11871.6	11929.0	12068.9	12314.8
30°	11003.9	11132.5	11316.0	11274.9	11032.6	10832.9	10856.6	10981.5	11165.0
32.5°	9787.9	9924.0	10017.7	9932.8	9810.4	9631.9	9578.2	9631.9	9681.8
35°	8550.7	8596.9	8474.6	8425.9	8424.6	8369.7	8309.8	8147.5	8060.1
37.5°	7369.7	7224.8	7005.1	6911.5	7018.8	7152.4	6972.7	6760.4	6650.6
40°	5907.7	5911.5	5774.1	5676.8	5716.7	5671.8	5593.1	5457.0	5424.6
42.5°	4618.1	4631.8	4675.5	4620.6	4524.4	4378.4	4334.7	4340.9	4437.0
45°	3616.8	3644.3	3722.9	3715.4	3589.3	3496.9	3435.8	3521.9	3535.6
47.5°	2876.5	2915.2	2947.6	2945.1	2847.7	2755.4	2727.9	2744.1	2777.8
50°	2325.9	2322.1	2297.2	2264.7	2224.8	2206.0	2174.8	2172.3	2172.3
52.5°	1791.5	1797.8	1747.8	1750.3	1731.6	1679.2	1665.4	1638.0	1638.0
55°	1387.0	1362.1	1322.1	1283.4	1262.2	1226.0	1221.0	1192.3	1193.5
57.5°	985.0	962.6	915.1	891.4	875.2	865.2	844.0	821.5	811.5
60°	680.4	661.7	635.5	611.7	590.5	585.5	565.6	543.1	538.1
62.5°	410.7	405.7	359.6	350.8	334.6	327.1	313.4	298.4	299.6
65°	222.2	189.8	173.5	163.5	159.8	139.8	128.6	126.1	132.3
67.5°	59.9	59.9	48.7	46.2	46.2	33.7	38.7	37.5	48.7
70°	52.4	37.5	32.5	26.2	30.0	17.5	32.5	26.2	25.0
72.5°	27.5	15.0	12.5	12.5	13.7	8.7	20.0	11.2	8.7
75°	11.2	7.5	5.0	2.5	6.2	6.2	7.5	2.5	7.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	3.7	2.5	0.0	0.0	0.0	7.5	0.0	0.0
87.5°	0.0	2.5	1.2	0.0	0.0	0.0	2.5	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)