

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: P247771

Luminaire Tested: **LD8B200D010 ER8B200830 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200830 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21921.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

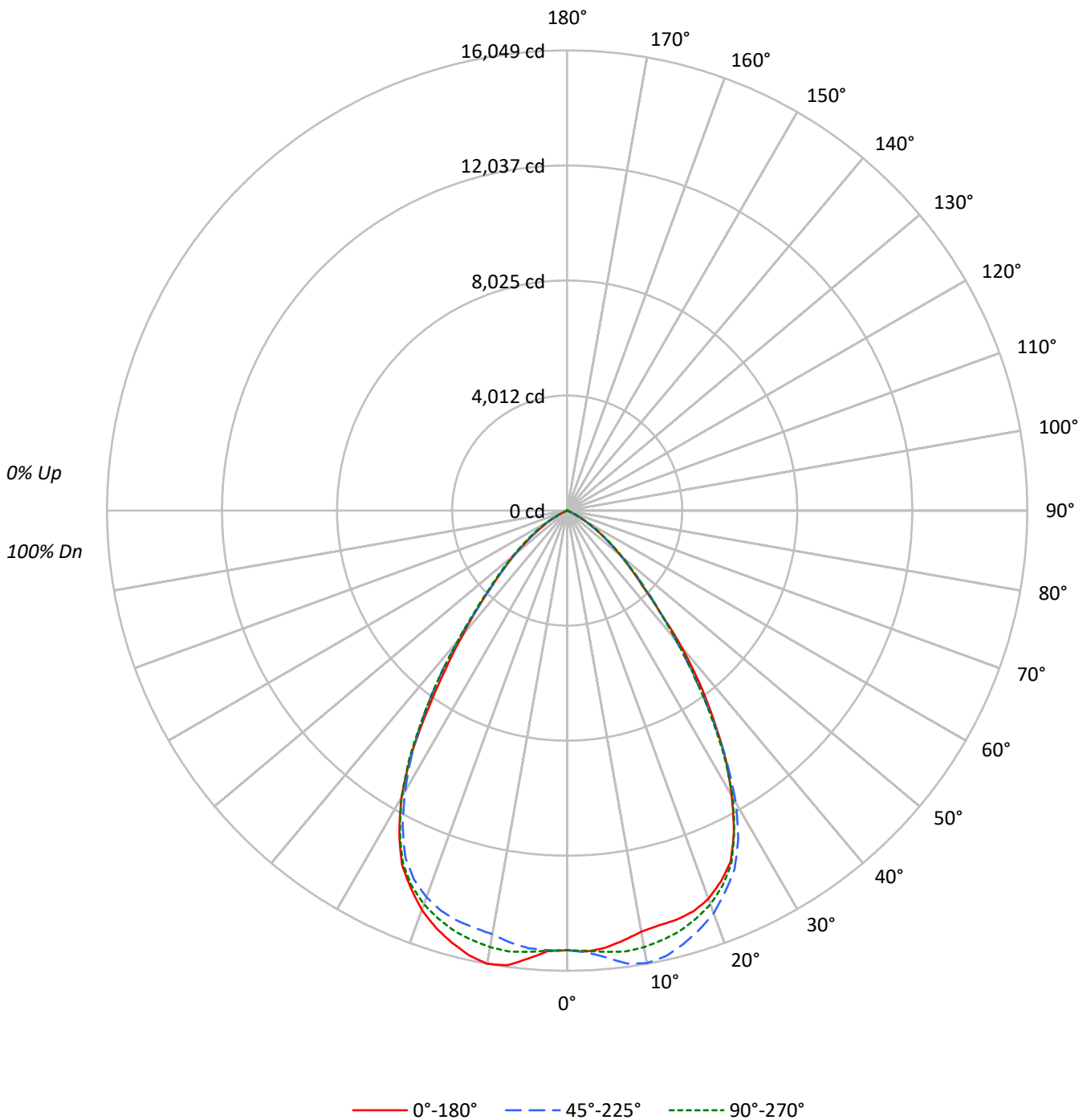
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	472764	472764	472764
5°	473737	478213	485583
10°	466915	484106	502539
15°	471628	484621	497572
20°	472826	479419	486182
25°	459414	461374	463813
30°	408605	410976	411339
35°	335587	328363	318440
40°	248765	238875	228264
45°	161733	165697	160338
50°	116771	118795	113700
55°	77814	80083	72723
60°	43646	47118	41277
65°	13725	17088	14381
70°	3579	4156	3345
75°	2288	1680	2740
80°	462	1367	0
85°	4989	1344	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1477.5	6.7
10°-20°	4278.9	19.5
20°-30°	6137.6	28.0
30°-40°	5416.1	24.7
40°-50°	2998.8	13.7
50°-60°	1321.5	6.0
60°-70°	267.0	1.2
70°-80°	20.0	0.1
80°-90°	3.7	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°	11894.0	54.3
0°-40°	17310.1	79.0
0°-60°	21630.3	98.7
0°-90°	21921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21921.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15331	15331	15331	15331	15331	
5°	15304	15641	15449	15324	15687	###
15°	14773	15653	15180	14809	15586	4168
25°	13503	13806	13560	13357	13632	6100
35°	8915	8787	8723	8729	8459	5530
45°	3709	3866	3800	3658	3677	3021
55°	1447	1441	1490	1413	1353	1327
65°	188	202	234	212	197	259
75°	19	19	14	15	23	19
85°	14	8	4	12	5	7
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°	15331.4	15331.4	15331.4	15331.4	15331.4	15331.4	15331.4	15331.4	15331.4
2.5°	15395.4	15331.4	15415.9	15363.4	15367.2	15287.9	15350.6	15410.8	15377.5
5°	15304.5	15363.4	15641.1	15633.4	15449.1	15209.8	15323.7	15597.6	15687.2
7.5°	15116.4	15328.9	15931.6	15986.6	15513.1	15008.9	15194.5	15765.2	15993.0
10°	14911.7	15217.5	16027.6	16135.1	15460.7	14796.5	15006.4	15725.6	16049.4
12.5°	14813.1	15108.7	15916.3	16019.9	15340.4	14694.1	14906.5	15574.6	15875.3
15°	14773.4	14996.1	15652.6	15747.3	15180.4	14636.5	14809.3	15355.7	15586.1
17.5°	14653.1	14806.7	15326.3	15386.4	14927.0	14495.7	14631.4	15049.9	15250.8
20°	14408.7	14511.1	14947.5	14979.5	14609.6	14243.6	14348.6	14678.7	14815.7
22.5°	14005.6	14073.4	14395.9	14407.4	14165.6	13848.2	13935.2	14193.7	14244.9
25°	13502.6	13509.0	13805.9	13750.9	13560.2	13265.9	13356.8	13578.2	13631.9
27.5°	12597.9	12619.6	12920.4	12847.4	12622.2	12366.2	12422.5	12624.7	12678.5
30°	11475.5	11597.1	11771.1	11735.3	11542.1	11284.8	11296.4	11494.7	11552.3
32.5°	10295.6	10259.8	10349.3	10322.5	10222.6	10019.2	10087.0	10138.2	10152.3
35°	8914.7	8885.3	8786.8	8662.6	8722.8	8802.1	8729.2	8616.6	8459.2
37.5°	7587.6	7422.6	7230.6	7101.3	7315.1	7398.2	7326.6	7082.1	6955.4
40°	6179.9	6005.9	5902.2	5870.2	5934.2	5995.6	5915.0	5796.0	5670.6
42.5°	4765.8	4764.5	4790.1	4783.7	4740.2	4651.9	4587.9	4639.1	4618.6
45°	3708.7	3766.3	3866.1	3882.8	3799.6	3670.3	3657.5	3706.2	3676.7
47.5°	3018.9	3039.4	3075.2	3126.4	3079.1	3013.8	2980.5	2995.9	2969.0
50°	2434.1	2439.2	2455.8	2494.2	2476.3	2431.5	2399.5	2380.3	2370.1
52.5°	1911.9	1900.4	1913.2	1926.0	1950.3	1920.9	1894.0	1853.1	1821.1
55°	1447.4	1438.4	1441.0	1451.2	1489.6	1456.4	1412.8	1386.0	1352.7
57.5°	1050.7	1021.2	1027.6	1062.2	1098.0	1083.9	1045.6	1002.0	961.1
60°	707.7	701.3	700.0	737.1	764.0	758.9	715.4	683.4	669.3
62.5°	418.5	414.6	424.9	441.5	473.5	450.5	421.0	404.4	399.3
65°	188.1	197.1	202.2	215.0	234.2	229.1	212.4	194.5	197.1
67.5°	81.9	62.7	70.4	79.3	74.2	78.1	69.1	72.9	70.4
70°	39.7	42.2	39.7	49.9	46.1	48.6	39.7	47.4	37.1
72.5°	28.2	24.3	30.7	35.8	30.7	35.8	32.0	24.3	19.2
75°	19.2	11.5	19.2	11.5	14.1	20.5	15.4	20.5	23.0
77.5°	2.6	9.0	3.8	5.1	2.6	6.4	6.4	3.8	11.5
80°	2.6	3.8	2.6	5.1	7.7	1.3	5.1	11.5	0.0
82.5°	9.0	0.0	1.3	0.0	1.3	2.6	0.0	2.6	0.0
85°	14.1	3.8	7.7	17.9	3.8	7.7	11.5	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	3.8	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)