

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: P247795

Luminaire Tested: **LD8B200D010 ER8B200950 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247795
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 ER8B200950 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21021.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

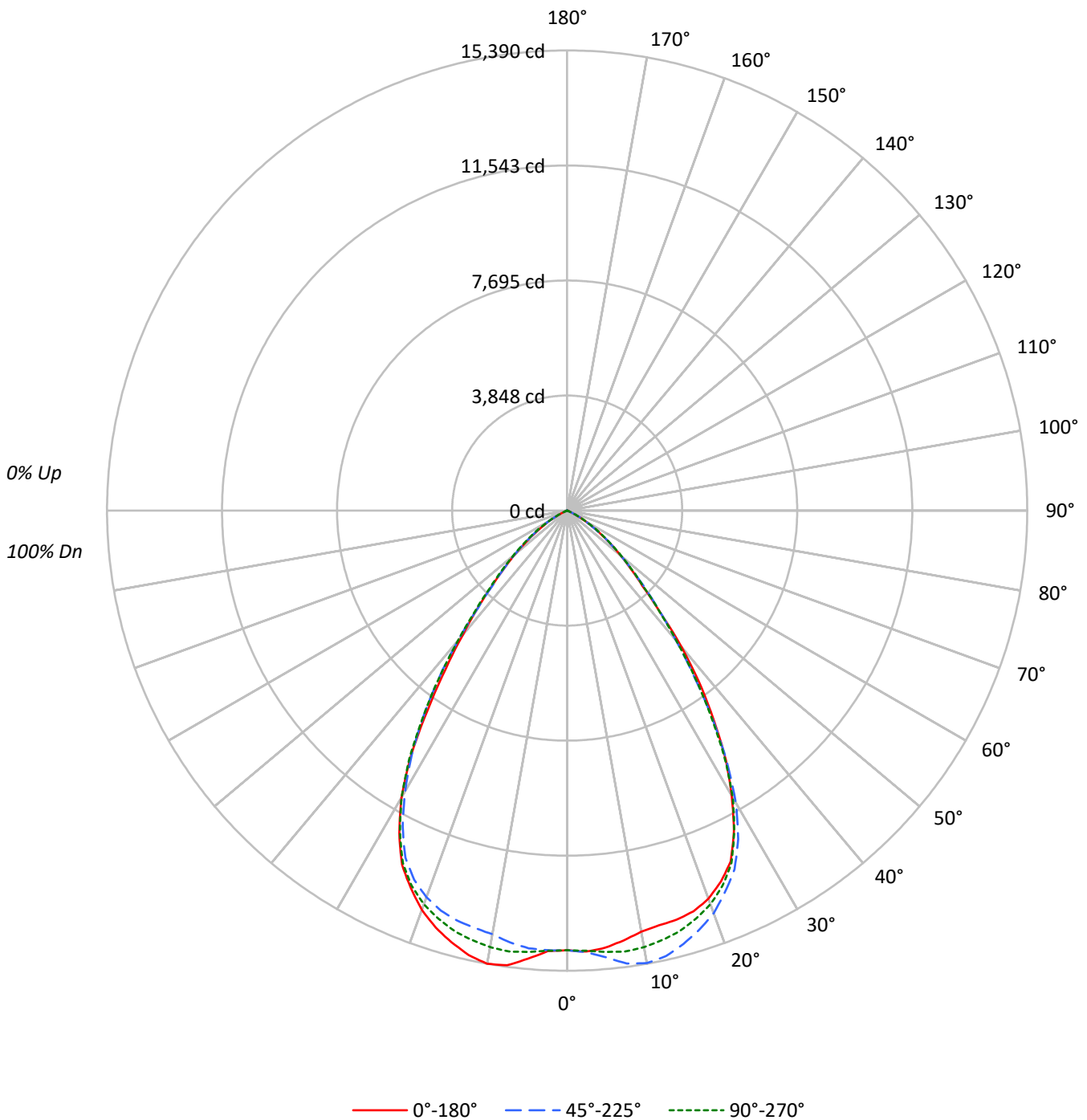
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	453355	453355	453355
5°	454289	458582	465646
10°	447743	464229	481904
15°	452266	464722	477144
20°	453413	459736	466220
25°	440554	442432	444770
30°	391830	394102	394451
35°	321809	314882	305362
40°	238553	229069	218893
45°	155096	158894	153757
50°	111978	113916	109033
55°	74621	76798	69739
60°	41851	45181	39581
65°	13163	16388	13790
70°	3426	3985	3210
75°	2192	1608	2633
80°	444	1314	0
85°	4776	1309	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1416.8	6.7
10°-20°	4103.3	19.5
20°-30°	5885.6	28.0
30°-40°	5193.7	24.7
40°-50°	2875.7	13.7
50°-60°	1267.2	6.0
60°-70°	256.0	1.2
70°-80°	19.2	0.1
80°-90°	3.5	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°	11405.7	54.3
0°-40°	16599.4	79.0
0°-60°	20742.3	98.7
0°-90°	21021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21021.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14702	14702	14702	14702	14702	
5°	14676	14999	14815	14695	15043	###
15°	14167	15010	14557	14201	14946	3997
25°	12948	13239	13004	12808	13072	5849
35°	8549	8426	8365	8371	8112	5303
45°	3556	3707	3644	3507	3526	2897
55°	1388	1382	1428	1355	1297	1272
65°	180	194	225	204	189	249
75°	18	18	14	15	22	18
85°	14	7	4	11	5	6
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°	14702.0	14702.0	14702.0	14702.0	14702.0	14702.0	14702.0	14702.0	14702.0
2.5°	14763.3	14702.0	14783.0	14732.6	14736.3	14660.2	14720.4	14778.0	14746.1
5°	14676.2	14732.6	14998.9	14991.6	14814.9	14585.4	14694.6	14957.2	15043.1
7.5°	14495.8	14699.5	15277.5	15330.3	14876.2	14392.7	14570.6	15118.0	15336.4
10°	14299.4	14592.7	15369.6	15472.6	14825.9	14189.0	14390.2	15079.9	15390.4
12.5°	14204.9	14488.4	15262.8	15362.2	14710.5	14090.8	14294.5	14935.1	15223.5
15°	14166.9	14380.4	15010.0	15100.8	14557.1	14035.6	14201.3	14725.3	14946.2
17.5°	14051.5	14198.8	14697.0	14754.7	14314.2	13900.6	14030.7	14432.0	14624.6
20°	13817.1	13915.3	14333.8	14364.5	14009.8	13658.8	13759.5	14076.1	14207.4
22.5°	13430.6	13495.6	13804.9	13815.9	13584.0	13279.6	13363.1	13611.0	13660.1
25°	12948.3	12954.4	13239.1	13186.4	13003.5	12721.2	12808.4	13020.7	13072.2
27.5°	12080.6	12101.5	12389.9	12319.9	12104.0	11858.5	11912.5	12106.4	12158.0
30°	11004.4	11121.0	11287.9	11253.5	11068.2	10821.5	10832.6	11022.8	11078.0
32.5°	9872.9	9838.5	9924.4	9898.7	9802.9	9607.8	9672.9	9721.9	9735.4
35°	8548.7	8520.5	8426.0	8307.0	8364.7	8440.7	8370.8	8262.8	8111.8
37.5°	7276.1	7117.8	6933.7	6809.8	7014.7	7094.5	7025.8	6791.4	6669.9
40°	5926.2	5759.3	5659.9	5629.2	5690.6	5749.5	5672.2	5558.0	5437.8
42.5°	4570.1	4568.9	4593.4	4587.3	4545.6	4460.9	4399.5	4448.6	4429.0
45°	3556.5	3611.7	3707.4	3723.4	3643.6	3519.6	3507.4	3554.0	3525.8
47.5°	2895.0	2914.6	2949.0	2998.1	2952.7	2890.1	2858.2	2872.9	2847.1
50°	2334.2	2339.1	2355.0	2391.8	2374.6	2331.7	2301.0	2282.6	2272.8
52.5°	1833.4	1822.4	1834.7	1846.9	1870.3	1842.0	1816.3	1777.0	1746.3
55°	1388.0	1379.4	1381.8	1391.7	1428.5	1396.6	1354.8	1329.1	1297.2
57.5°	1007.5	979.3	985.4	1018.6	1052.9	1039.4	1002.6	960.9	921.6
60°	678.6	672.5	671.3	706.9	732.6	727.7	686.0	655.3	641.8
62.5°	401.3	397.6	407.4	423.4	454.1	432.0	403.8	387.8	382.9
65°	180.4	189.0	193.9	206.2	224.6	219.7	203.7	186.5	189.0
67.5°	78.5	60.1	67.5	76.1	71.2	74.9	66.3	70.0	67.5
70°	38.0	40.5	38.0	47.9	44.2	46.6	38.0	45.4	35.6
72.5°	27.0	23.3	29.5	34.4	29.5	34.4	30.7	23.3	18.4
75°	18.4	11.0	18.4	11.0	13.5	19.6	14.7	19.6	22.1
77.5°	2.5	8.6	3.7	4.9	2.5	6.1	6.1	3.7	11.0
80°	2.5	3.7	2.5	4.9	7.4	1.2	4.9	11.0	0.0
82.5°	8.6	0.0	1.2	0.0	1.2	2.5	0.0	2.5	0.0
85°	13.5	3.7	7.4	17.2	3.7	7.4	11.0	4.9	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	3.7	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)