

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: P247792

Luminaire Tested: **LD8B200D010 ER8B200940 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247792
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 ER8B200940 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20304.0 lumens
Efficiency: N/A
Efficacy: 90.9 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

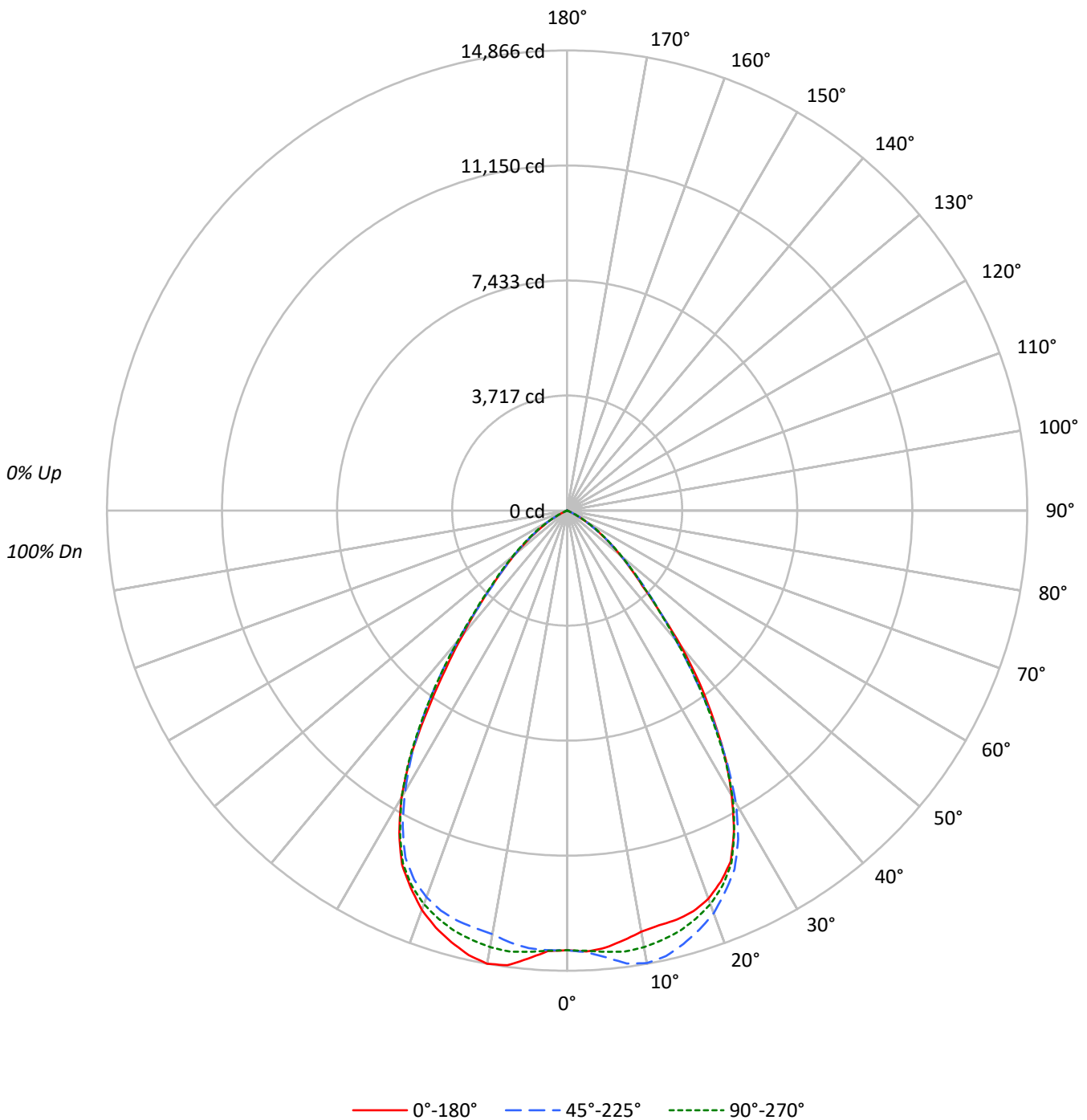
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	437891	437891	437891
5°	438793	442938	449763
10°	432472	448394	465469
15°	436840	448872	460869
20°	437950	444057	450318
25°	425526	427343	429599
30°	378464	380661	380999
35°	310832	304139	294950
40°	230418	221256	211426
45°	149802	153474	148511
50°	108155	110035	105315
55°	72073	74175	67358
60°	40426	43646	38231
65°	12710	15826	13316
70°	3309	3850	3101
75°	2121	1549	2538
80°	426	1261	0
85°	4599	1274	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1368.5	6.7
10°-20°	3963.3	19.5
20°-30°	5684.9	28.0
30°-40°	5016.5	24.7
40°-50°	2777.6	13.7
50°-60°	1224.0	6.0
60°-70°	247.3	1.2
70°-80°	18.5	0.1
80°-90°	3.4	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°	11016.7	54.3
0°-40°	16033.2	79.0
0°-60°	20034.7	98.7
0°-90°	20304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20304.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14200	14200	14200	14200	14200	
5°	14176	14487	14310	14193	14530	###
15°	13684	14498	14061	13717	14436	3860
25°	12507	12788	12560	12372	12626	5650
35°	8257	8139	8079	8085	7835	5122
45°	3435	3581	3519	3388	3406	2798
55°	1341	1335	1380	1309	1253	1229
65°	174	187	217	197	182	240
75°	18	18	13	14	21	17
85°	13	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°	14200.5	14200.5	14200.5	14200.5	14200.5	14200.5	14200.5	14200.5	14200.5
2.5°	14259.8	14200.5	14278.7	14230.1	14233.7	14160.2	14218.3	14274.0	14243.2
5°	14175.6	14230.1	14487.3	14480.2	14309.5	14087.9	14193.4	14447.0	14530.0
7.5°	14001.4	14198.1	14756.4	14807.4	14368.8	13901.8	14073.7	14602.3	14813.3
10°	13811.7	14095.0	14845.3	14944.9	14320.2	13705.0	13899.4	14565.6	14865.5
12.5°	13720.4	13994.2	14742.2	14838.2	14208.8	13610.2	13807.0	14425.7	14704.3
15°	13683.7	13889.9	14498.0	14585.7	14060.6	13556.8	13716.9	14223.0	14436.4
17.5°	13572.3	13714.5	14195.8	14251.5	13825.9	13426.5	13552.1	13939.7	14125.8
20°	13345.9	13440.7	13844.9	13874.5	13532.0	13192.9	13290.1	13596.0	13722.8
22.5°	12972.5	13035.3	13334.0	13344.7	13120.6	12826.7	12907.3	13146.7	13194.1
25°	12506.6	12512.6	12787.6	12736.6	12560.0	12287.3	12371.5	12576.6	12626.3
27.5°	11668.6	11688.7	11967.3	11899.7	11691.1	11454.0	11506.2	11693.5	11743.3
30°	10629.0	10741.6	10902.8	10869.7	10690.7	10452.4	10463.1	10646.8	10700.2
32.5°	9536.1	9503.0	9585.9	9561.0	9468.6	9280.1	9342.9	9390.3	9403.4
35°	8257.1	8229.9	8138.6	8023.6	8079.3	8152.8	8085.3	7981.0	7835.2
37.5°	7027.9	6875.0	6697.2	6577.5	6775.5	6852.5	6786.1	6559.7	6442.4
40°	5724.1	5562.8	5466.8	5437.2	5496.5	5553.4	5478.7	5368.4	5252.3
42.5°	4414.2	4413.1	4436.8	4430.8	4390.5	4308.7	4249.5	4296.9	4277.9
45°	3435.1	3488.5	3580.9	3596.4	3519.3	3399.6	3387.7	3432.8	3405.5
47.5°	2796.2	2815.2	2848.4	2895.8	2852.0	2791.5	2760.7	2774.9	2750.0
50°	2254.5	2259.3	2274.7	2310.2	2293.7	2252.2	2222.5	2204.8	2195.3
52.5°	1770.9	1760.2	1772.1	1784.0	1806.5	1779.2	1754.3	1716.4	1686.8
55°	1340.6	1332.3	1334.7	1344.2	1379.7	1348.9	1308.6	1283.7	1252.9
57.5°	973.2	945.9	951.8	983.8	1017.0	1004.0	968.4	928.1	890.2
60°	655.5	649.6	648.4	682.8	707.7	702.9	662.6	633.0	619.9
62.5°	387.6	384.1	393.5	408.9	438.6	417.2	390.0	374.6	369.8
65°	174.2	182.5	187.3	199.1	216.9	212.2	196.8	180.2	182.5
67.5°	75.9	58.1	65.2	73.5	68.8	72.3	64.0	67.6	65.2
70°	36.7	39.1	36.7	46.2	42.7	45.0	36.7	43.9	34.4
72.5°	26.1	22.5	28.4	33.2	28.4	33.2	29.6	22.5	17.8
75°	17.8	10.7	17.8	10.7	13.0	19.0	14.2	19.0	21.3
77.5°	2.4	8.3	3.6	4.7	2.4	5.9	5.9	3.6	10.7
80°	2.4	3.6	2.4	4.7	7.1	1.2	4.7	10.7	0.0
82.5°	8.3	0.0	1.2	0.0	1.2	2.4	0.0	2.4	0.0
85°	13.0	3.6	7.1	16.6	3.6	7.1	10.7	4.7	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	3.6	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)