

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: P247915

Luminaire Tested: **LD8B200D010 ER8B200830 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200830 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20819.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

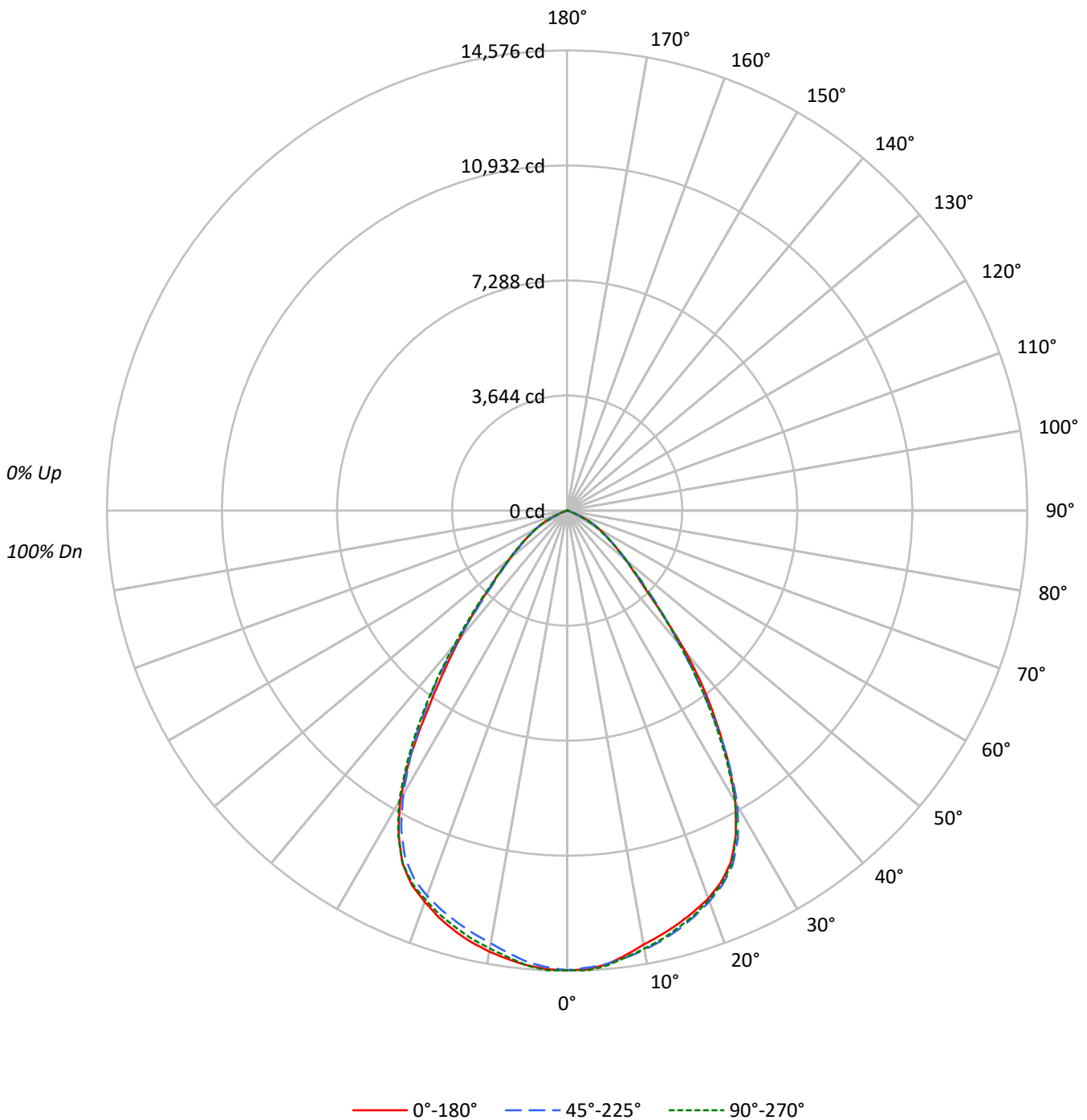
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	448927	448927	448927
5°	446600	447869	447630
10°	437059	441105	444192
15°	432773	436246	439882
20°	429067	430619	432762
25°	417785	419398	419745
30°	379211	378848	376295
35°	312221	305238	289966
40°	233465	222955	212859
45°	151184	155148	151633
50°	115725	115111	114621
55°	90679	89029	88271
60°	72138	68191	69141
65°	47340	41831	42298
70°	16959	15580	16157
75°	6100	7470	6100
80°	3871	5452	4546
85°	920	2724	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1363.6	6.5
10°-20°	3844.3	18.5
20°-30°	5573.6	26.8
30°-40°	5010.0	24.1
40°-50°	2823.2	13.6
50°-60°	1504.2	7.2
60°-70°	601.2	2.9
70°-80°	80.1	0.4
80°-90°	18.9	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°	10781.6	51.8
0°-40°	15791.5	75.9
0°-60°	20118.9	96.6
0°-90°	20819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20819.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14558	14558	14558	14558	14558	
5°	14428	14415	14469	14355	14461	###
15°	13556	13714	13665	13496	13779	3825
25°	12279	12394	12326	12136	12337	5574
35°	8294	8175	8108	7996	7703	5146
45°	3467	3655	3558	3390	3477	2848
55°	1687	1692	1656	1618	1642	1537
65°	649	618	573	557	580	642
75°	51	65	63	61	51	76
85°	3	15	8	22	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°	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4
2.5°	14548.1	14517.4	14494.4	14537.9	14576.3	14471.4	14479.0	14525.1	14540.5
5°	14427.8	14399.7	14415.0	14450.9	14468.8	14337.0	14354.9	14433.0	14461.1
7.5°	14202.6	14224.4	14279.4	14325.5	14271.7	14116.9	14142.5	14276.8	14331.9
10°	13958.2	14009.4	14124.5	14178.3	14087.4	13889.1	13918.5	14098.9	14186.0
12.5°	13763.7	13820.0	13940.3	13981.2	13900.6	13686.9	13717.6	13904.4	14008.1
15°	13556.3	13607.5	13713.7	13747.0	13665.1	13468.0	13496.2	13675.4	13779.0
17.5°	13322.1	13366.9	13461.6	13492.3	13420.7	13212.1	13256.9	13423.2	13514.1
20°	13075.2	13107.1	13173.7	13191.6	13122.5	12965.1	12985.6	13128.9	13187.8
22.5°	12738.6	12779.5	12841.0	12860.2	12796.2	12623.4	12642.6	12783.4	12847.4
25°	12279.1	12339.3	12394.3	12418.6	12326.5	12097.4	12135.8	12256.1	12336.7
27.5°	11566.3	11615.0	11712.2	11714.8	11588.1	11350.1	11382.0	11536.9	11557.4
30°	10650.0	10694.8	10780.6	10761.4	10639.8	10357.0	10382.6	10533.6	10568.1
32.5°	9527.7	9544.3	9567.4	9561.0	9412.5	9279.4	9227.0	9244.9	9257.7
35°	8294.0	8323.5	8175.0	8094.4	8108.5	8120.0	7995.8	7811.6	7702.8
37.5°	7098.7	6958.0	6775.0	6712.3	6828.7	6867.1	6754.5	6479.3	6378.2
40°	5799.8	5674.4	5529.8	5541.3	5538.7	5565.6	5423.6	5322.5	5287.9
42.5°	4463.7	4465.0	4559.7	4494.5	4481.7	4294.8	4239.8	4296.1	4357.5
45°	3466.8	3582.0	3655.0	3635.8	3557.7	3390.0	3390.0	3488.6	3477.1
47.5°	2853.8	2894.8	2949.8	2946.0	2889.7	2766.8	2787.3	2855.1	2889.7
50°	2412.3	2430.2	2455.8	2434.1	2399.5	2322.7	2321.5	2368.8	2389.3
52.5°	2018.2	2028.4	2022.0	2010.5	1991.3	1950.3	1937.5	1977.2	1982.3
55°	1686.7	1705.9	1691.8	1659.8	1656.0	1618.9	1617.6	1649.6	1641.9
57.5°	1405.2	1386.0	1366.8	1339.9	1336.1	1324.5	1337.3	1342.5	1334.8
60°	1169.7	1171.0	1133.9	1108.3	1105.7	1089.1	1107.0	1121.1	1121.1
62.5°	941.9	936.8	913.7	875.3	881.7	875.3	883.0	885.6	874.1
65°	648.8	650.1	618.1	572.0	573.3	568.2	556.7	574.6	579.7
67.5°	345.5	343.0	318.7	302.0	295.6	298.2	311.0	314.8	300.7
70°	188.1	181.7	186.8	168.9	172.8	166.4	172.8	183.0	179.2
72.5°	96.0	102.4	92.1	84.5	94.7	93.4	108.8	99.8	89.6
75°	51.2	55.0	65.3	60.1	62.7	60.1	61.4	57.6	51.2
77.5°	37.1	41.0	47.4	46.1	44.8	42.2	47.4	52.5	42.2
80°	21.8	26.9	29.4	34.6	30.7	34.6	39.7	32.0	25.6
82.5°	14.1	21.8	21.8	23.0	33.3	21.8	35.8	32.0	25.6
85°	2.6	3.8	15.4	9.0	7.7	23.0	21.8	16.6	5.1
87.5°	0.0	9.0	20.5	10.2	16.6	15.4	21.8	23.0	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)