

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: P250126

Luminaire Tested: **LD8B200D010 ER8B200827 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20193.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

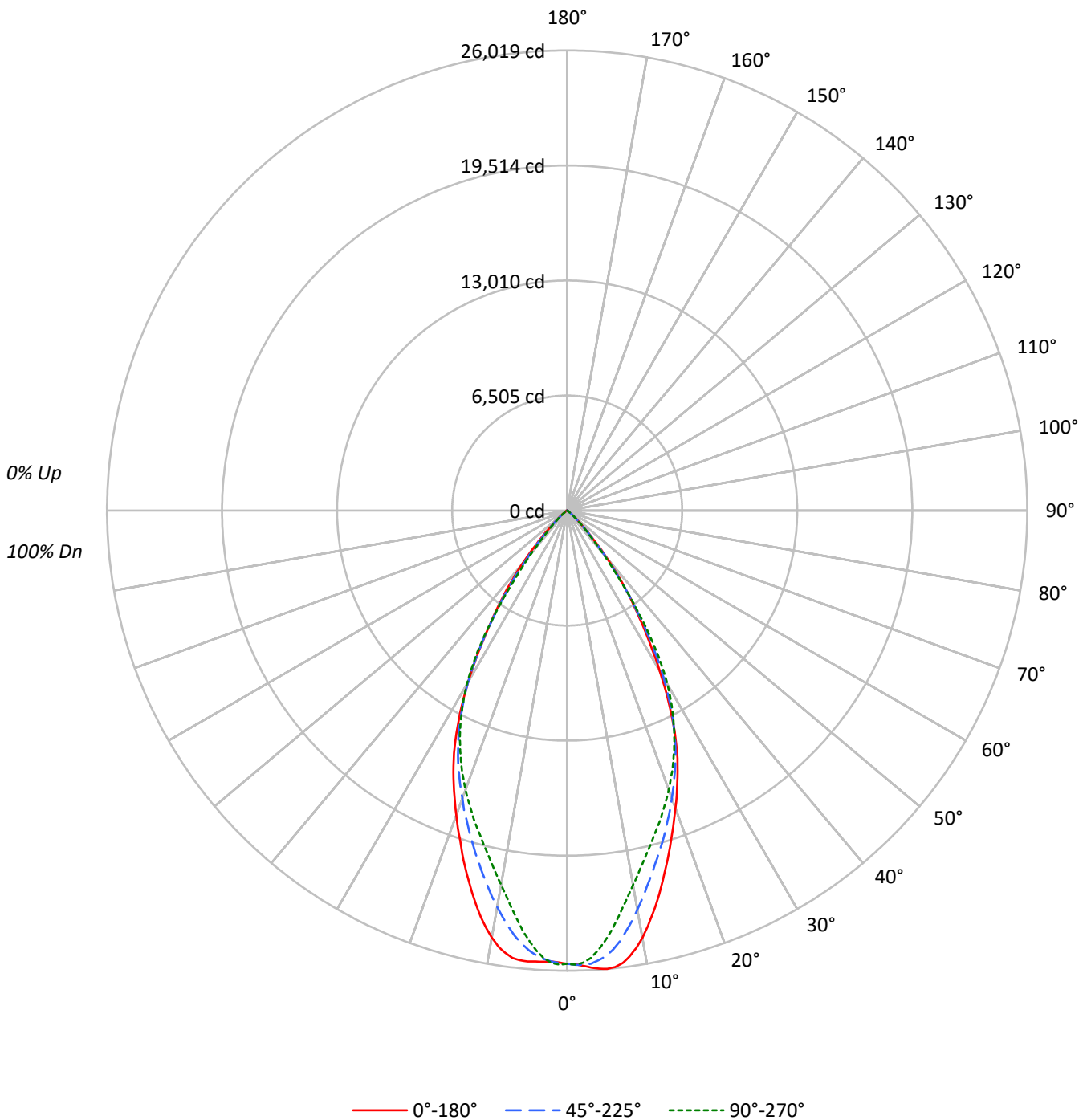
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250126

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBM0WH

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	790233	790233	790233
5°	805404	756608	792286
10°	767893	673077	767695
15°	678077	607069	689612
20°	587621	551022	601525
25°	496490	488008	514717
30°	373158	403997	398671
35°	249796	264104	270903
40°	139951	120134	160517
45°	56247	49453	66844
50°	19424	18834	23017
55°	5360	6371	6032
60°	3077	3848	3460
65°	2729	2269	1817
70°	0	1686	1127
75°	0	0	0
80°	0	0	1101
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2326.4	11.5
10°-20°	5626.7	27.9
20°-30°	6594.8	32.7
30°-40°	4339.0	21.5
40°-50°	1132.3	5.6
50°-60°	139.3	0.7
60°-70°	28.9	0.1
70°-80°	5.4	0.0
80°-90°	0.2	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°	14548.0	72.0
0°-40°	18887.0	93.5
0°-60°	20158.6	99.8
0°-90°	20193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20193.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25627	25627	25627	25627	25627	
5°	26019	25278	24443	24948	25596	###
15°	21240	20038	19016	20038	21602	5921
25°	14592	14449	14343	14586	15128	6578
35°	6636	6785	7016	7084	7196	4155
45°	1290	1215	1134	1315	1533	1156
55°	100	106	118	118	112	132
65°	37	31	31	25	25	26
75°	0	6	0	0	0	3
85°	0	0	0	0	0	0
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°	25626.7	25626.7	25626.7	25626.7	25626.7	25626.7	25626.7	25626.7	25626.7
1°	25645.3	25682.8	25695.2	25732.7	25676.6	25639.2	25589.4	25551.9	25558.1
2°	25757.5	25776.3	25707.7	25682.8	25583.1	25551.9	25514.5	25508.3	25514.5
3°	25876.0	25838.5	25657.8	25489.7	25340.1	25321.4	25390.0	25489.7	25545.6
4°	25969.4	25869.7	25489.7	25178.0	24941.3	24922.7	25196.8	25452.2	25558.1
5°	26019.3	25838.5	25277.8	24754.4	24442.9	24561.2	24947.5	25402.3	25595.5
6°	25950.7	25682.8	24953.8	24256.0	23900.8	24056.6	24623.6	25284.0	25570.6
7°	25776.3	25433.6	24536.4	23713.9	23277.7	23520.7	24243.5	25084.6	25477.2
8°	25452.2	25041.0	24006.7	23084.6	22654.6	22928.7	23776.2	24798.0	25252.9
9°	25028.5	24573.7	23483.4	22511.3	22050.3	22374.3	23290.2	24417.9	24941.3
10°	24523.9	24037.8	22903.9	21913.2	21495.8	21801.0	22766.8	23975.5	24517.6
11°	23931.9	23464.6	22324.4	21352.5	20953.7	21252.8	22243.5	23446.0	24031.6
12°	23290.2	22860.3	21732.6	20810.4	20436.6	20723.2	21682.7	22897.6	23477.1
13°	22648.4	22218.5	21159.4	20287.0	19944.3	20218.4	21134.4	22299.6	22878.9
14°	21956.9	21564.3	20586.1	19788.5	19477.0	19738.7	20573.6	21695.1	22243.5
15°	21240.3	20928.7	20037.8	19308.7	19016.0	19265.1	20037.8	21072.0	21601.6
16°	20567.4	20280.8	19508.1	18835.2	18592.3	18791.6	19495.8	20449.1	20953.7
17°	19882.0	19620.3	18978.5	18367.9	18149.9	18343.1	18941.2	19819.8	20274.5
18°	19196.7	18978.5	18399.2	17875.8	17682.7	17857.1	18392.9	19184.2	19595.3
19°	18561.1	18361.7	17869.6	17427.1	17252.7	17408.4	17913.2	18573.6	18984.8
20°	17906.9	17744.9	17314.9	16953.6	16791.6	16934.9	17327.4	17969.3	18330.6
21°	17277.6	17134.3	16760.5	16455.1	16324.3	16442.7	16804.1	17383.5	17701.3
22°	16623.4	16542.5	16206.0	15950.5	15863.3	15938.0	16268.2	16766.7	17065.8
23°	15981.6	15906.9	15651.4	15439.6	15364.8	15439.6	15732.5	16181.0	16449.0
24°	15333.6	15252.7	15065.8	14928.6	14866.4	14928.6	15177.8	15557.9	15813.4
25°	14592.3	14579.8	14449.0	14374.1	14343.0	14411.5	14586.0	14916.2	15128.0
26°	13881.8	13844.5	13807.1	13794.6	13800.9	13838.2	13981.5	14230.8	14399.1
27°	13009.6	13065.7	13121.7	13196.6	13221.4	13252.7	13321.1	13501.8	13626.5
28°	12174.7	12280.6	12417.7	12567.2	12635.8	12635.8	12641.9	12741.6	12847.6
29°	11346.1	11458.1	11676.3	11900.5	11994.0	11981.5	11931.6	11975.2	12037.6
30°	10480.0	10623.3	10916.1	11209.0	11346.1	11296.2	11202.8	11159.2	11196.5
31°	9632.6	9775.9	10099.9	10417.6	10598.3	10542.3	10380.3	10349.2	10367.8
32°	8822.7	8966.0	9264.9	9601.4	9807.0	9732.3	9564.0	9514.2	9520.4
33°	8037.5	8149.7	8423.8	8735.4	8903.6	8884.9	8747.8	8685.6	8691.7
34°	7296.1	7389.6	7595.1	7832.0	7993.9	7987.7	7888.0	7894.2	7913.0
35°	6635.7	6685.6	6785.1	6916.1	7015.8	7071.7	7084.2	7134.1	7196.4
37.5°	5015.7	5034.3	4916.0	4785.1	4760.2	4922.3	5202.6	5445.6	5539.1
40°	3476.7	3433.1	3283.5	3053.0	2984.4	3165.2	3520.3	3863.0	3987.6
42.5°	2162.1	2143.3	2049.9	1875.5	1813.1	1919.1	2187.0	2448.7	2573.3
45°	1289.8	1264.8	1214.9	1146.5	1134.0	1177.6	1314.6	1464.2	1532.8
47.5°	741.4	735.3	704.0	679.2	672.9	704.0	766.4	853.6	872.3
50°	404.9	398.8	392.6	392.6	392.6	411.2	442.4	467.3	479.8
52.5°	199.4	205.7	199.4	205.7	211.9	224.3	218.0	243.0	243.0
55°	99.7	93.5	106.0	118.5	118.5	118.5	118.5	118.5	112.2
57.5°	74.7	81.0	68.6	74.7	68.6	68.6	62.4	68.6	74.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	49.9	43.6	49.9	56.1	62.4	56.1	43.6	49.9	56.1
62.5°	24.9	24.9	24.9	37.4	56.1	43.6	37.4	31.1	31.1
65°	37.4	24.9	31.1	37.4	31.1	31.1	24.9	31.1	24.9
67.5°	18.7	31.1	18.7	12.5	18.7	24.9	18.7	12.5	12.5
70°	0.0	6.2	6.2	18.7	18.7	18.7	18.7	12.5	12.5
72.5°	6.2	6.2	6.2	12.5	6.2	12.5	6.2	6.2	12.5
75°	0.0	0.0	6.2	6.2	0.0	6.2	0.0	0.0	0.0
77.5°	6.2	0.0	6.2	6.2	0.0	0.0	0.0	6.2	0.0
80°	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	6.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)