

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: P247390

Luminaire Tested: **LD8B80D010 ER8B80835 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80835 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8701.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

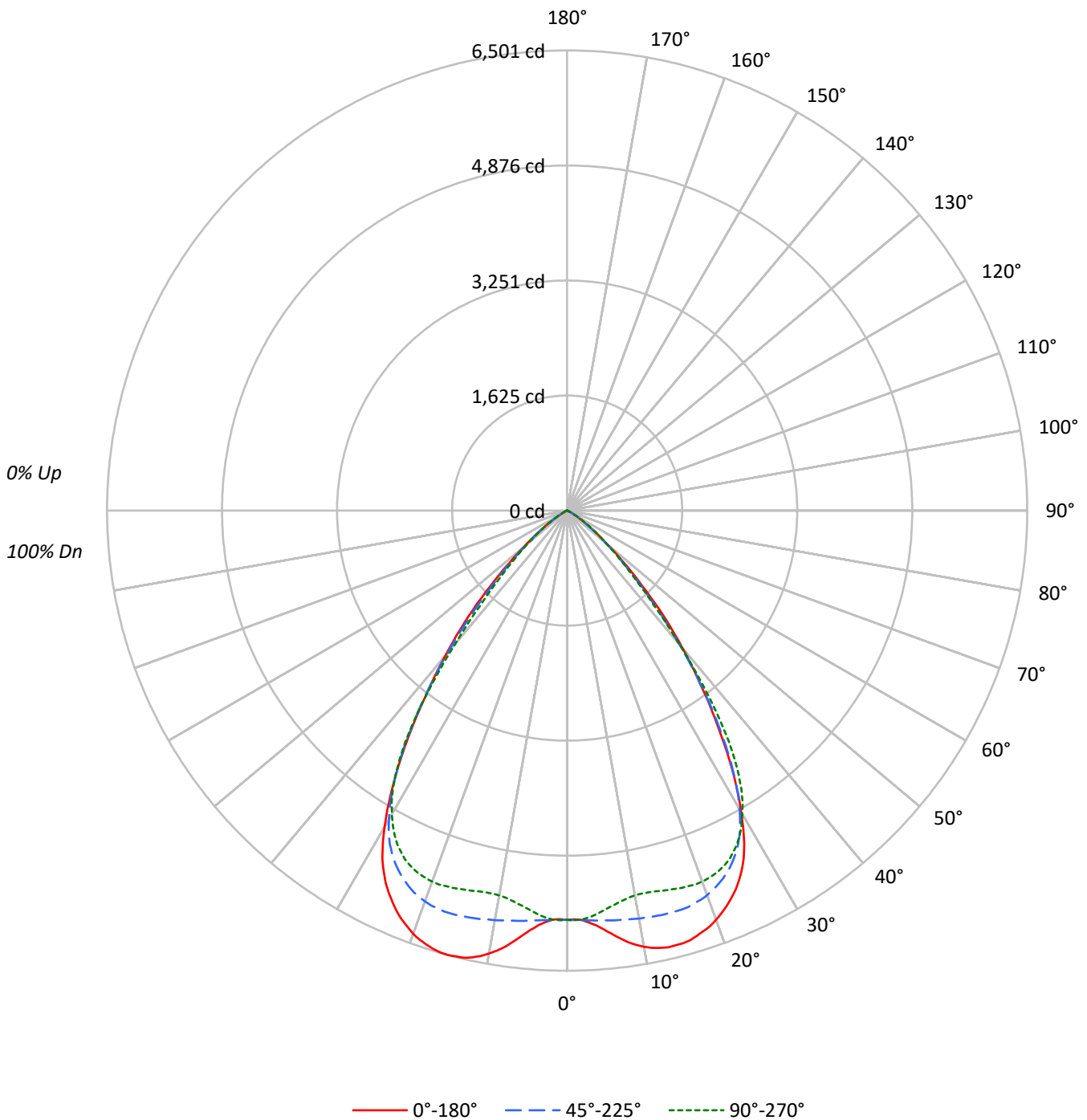
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84				84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76				76
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70				70
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58				58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53				53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	178345	178345	178345
5°	183818	175832	184121
10°	195941	172864	199019
15°	201971	177105	207539
20°	201965	183021	208817
25°	195778	184744	202801
30°	175228	176278	183627
35°	139566	150016	147336
40°	101967	99198	107800
45°	65143	58074	70821
50°	35241	34531	37836
55°	18096	18757	18096
60°	7876	7876	5754
65°	1613	2152	1795
70°	1100	1551	1767
75°	0	882	0
80°	426	426	1740
85°	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.5	6.4
10°-20°	1677.2	19.3
20°-30°	2552.9	29.3
30°-40°	2375.7	27.3
40°-50°	1156.3	13.3
50°-60°	329.5	3.8
60°-70°	43.1	0.5
70°-80°	6.8	0.1
80°-90°	2.1	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°	4787.6	55.0
0°-40°	7163.3	82.3
0°-60°	8649.1	99.4
0°-90°	8701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5784	5784	5784	5784	5784	
5°	5938	5808	5680	5813	5948	578
15°	6327	5867	5548	5924	6501	1780
25°	5754	5504	5430	5624	5960	2612
35°	3708	3759	3985	3943	3914	2305
45°	1494	1383	1332	1491	1624	1181
55°	337	337	349	342	337	330
65°	22	27	30	27	25	42
75°	0	2	7	2	0	4
85°	0	2	2	5	0	1
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°	5783.6	5783.6	5783.6	5783.6	5783.6	5783.6	5783.6	5783.6	5783.6
1°	5776.2	5783.6	5788.5	5786.1	5788.5	5786.1	5781.1	5771.3	5771.3
2°	5786.1	5795.9	5793.4	5788.5	5781.1	5781.1	5795.9	5776.2	5781.1
3°	5825.3	5825.3	5795.9	5768.9	5759.0	5768.9	5793.4	5808.1	5820.5
4°	5874.5	5864.7	5805.7	5744.3	5724.6	5749.2	5803.3	5849.9	5874.5
5°	5938.4	5908.9	5808.1	5714.8	5680.4	5717.2	5813.1	5901.5	5948.2
6°	6012.1	5967.8	5822.9	5682.8	5638.6	5690.2	5827.8	5963.0	6034.2
7°	6085.8	6014.5	5830.3	5658.3	5601.7	5673.0	5840.1	6031.7	6125.1
8°	6154.6	6058.7	5837.7	5636.2	5567.3	5641.1	5849.9	6093.1	6216.0
9°	6211.1	6100.5	5842.5	5619.0	5537.9	5621.4	5862.2	6147.2	6292.1
10°	6257.7	6132.4	5852.4	5609.1	5520.7	5611.6	5874.5	6193.9	6356.0
11°	6294.7	6154.6	5854.9	5604.3	5513.3	5604.3	5884.3	6240.6	6410.1
12°	6316.7	6174.2	5862.2	5606.7	5515.8	5611.6	5899.0	6260.3	6454.3
13°	6331.5	6181.6	5867.1	5614.1	5520.7	5616.5	5908.9	6277.5	6483.8
14°	6331.5	6176.7	5867.1	5621.4	5535.5	5626.3	5916.2	6289.7	6491.2
15°	6326.6	6174.2	5867.1	5633.7	5547.7	5636.2	5923.6	6297.1	6501.0
16°	6311.9	6159.5	5864.7	5641.1	5560.0	5646.0	5926.0	6292.1	6493.7
17°	6282.3	6152.2	5854.9	5648.4	5572.3	5655.8	5926.0	6279.9	6476.4
18°	6243.0	6100.5	5830.3	5641.1	5574.7	5653.4	5911.4	6247.9	6444.5
19°	6208.6	6071.1	5813.1	5636.2	5584.5	5660.8	5901.5	6225.8	6410.1
20°	6154.6	6021.9	5783.6	5621.4	5577.3	5646.0	5877.0	6186.6	6363.4
21°	6088.3	5965.4	5741.8	5596.9	5564.9	5626.3	5842.5	6132.4	6299.5
22°	6021.9	5901.5	5697.6	5572.3	5545.3	5609.1	5805.7	6075.9	6233.2
23°	5943.2	5830.3	5641.1	5530.5	5515.8	5569.9	5754.1	6014.5	6154.6
24°	5854.9	5746.7	5579.7	5483.8	5479.0	5528.1	5695.2	5933.4	6061.3
25°	5754.1	5658.3	5503.5	5424.9	5429.8	5471.6	5623.9	5842.5	5960.5
26°	5633.7	5545.3	5415.0	5353.7	5361.0	5402.8	5542.8	5736.9	5849.9
27°	5498.6	5417.5	5311.9	5267.6	5287.3	5324.1	5444.6	5621.4	5712.4
28°	5329.1	5265.2	5189.0	5169.4	5194.0	5235.7	5336.5	5481.4	5562.5
29°	5132.5	5098.1	5039.1	5049.0	5083.3	5117.7	5201.3	5306.9	5370.8
30°	4921.2	4906.5	4872.1	4911.4	4950.7	4980.2	5036.7	5107.9	5157.1
31°	4705.0	4687.8	4692.7	4756.6	4815.6	4835.2	4867.1	4901.5	4938.4
32°	4461.8	4456.8	4476.5	4569.9	4646.1	4655.9	4658.3	4668.1	4687.8
33°	4213.6	4206.2	4245.6	4361.1	4447.0	4454.4	4434.7	4424.9	4439.7
34°	3955.7	3955.7	4007.2	4127.7	4228.4	4235.7	4196.4	4191.5	4176.7
35°	3707.5	3700.1	3759.1	3872.1	3985.1	3987.6	3943.3	3916.3	3913.9
37.5°	3093.2	3081.0	3100.6	3159.6	3243.1	3287.4	3282.4	3272.6	3265.2
40°	2533.1	2503.6	2464.3	2439.7	2464.3	2555.2	2633.8	2670.7	2678.0
42.5°	2004.9	1963.1	1879.6	1810.7	1820.6	1904.2	2024.5	2108.0	2149.8
45°	1493.8	1452.0	1383.2	1331.7	1331.7	1390.6	1491.3	1577.3	1624.0
47.5°	1066.3	1039.3	1000.0	977.8	992.6	1017.2	1073.7	1137.6	1157.2
50°	734.6	727.2	705.2	705.2	719.8	739.6	749.4	781.3	788.7
52.5°	513.5	501.2	503.6	506.1	518.4	520.9	535.6	528.2	540.5
55°	336.6	336.6	336.6	343.9	348.9	348.9	341.5	336.6	336.6
57.5°	213.8	208.8	211.3	216.2	216.2	208.8	196.6	194.1	181.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	127.7	127.7	130.3	130.3	127.7	120.3	108.1	98.3	93.3
62.5°	66.3	68.8	68.8	81.1	68.8	61.4	56.5	44.2	41.8
65°	22.1	27.0	27.0	27.0	29.5	27.0	27.0	24.6	24.6
67.5°	14.8	17.2	17.2	19.6	19.6	19.6	19.6	24.6	17.2
70°	12.2	12.2	14.8	17.2	17.2	19.6	14.8	12.2	19.6
72.5°	7.4	9.8	7.4	12.2	9.8	9.8	9.8	9.8	9.8
75°	0.0	5.0	2.4	0.0	7.4	5.0	2.4	5.0	0.0
77.5°	2.4	2.4	2.4	2.4	5.0	5.0	5.0	5.0	2.4
80°	2.4	2.4	5.0	2.4	2.4	5.0	0.0	0.0	9.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	0.0	2.4	2.4
85°	0.0	2.4	2.4	2.4	2.4	2.4	5.0	5.0	0.0
87.5°	0.0	2.4	0.0	2.4	0.0	0.0	0.0	5.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)