

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: P248133

Luminaire Tested: **LD8B175D010 ER8B175835 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175835 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20401.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

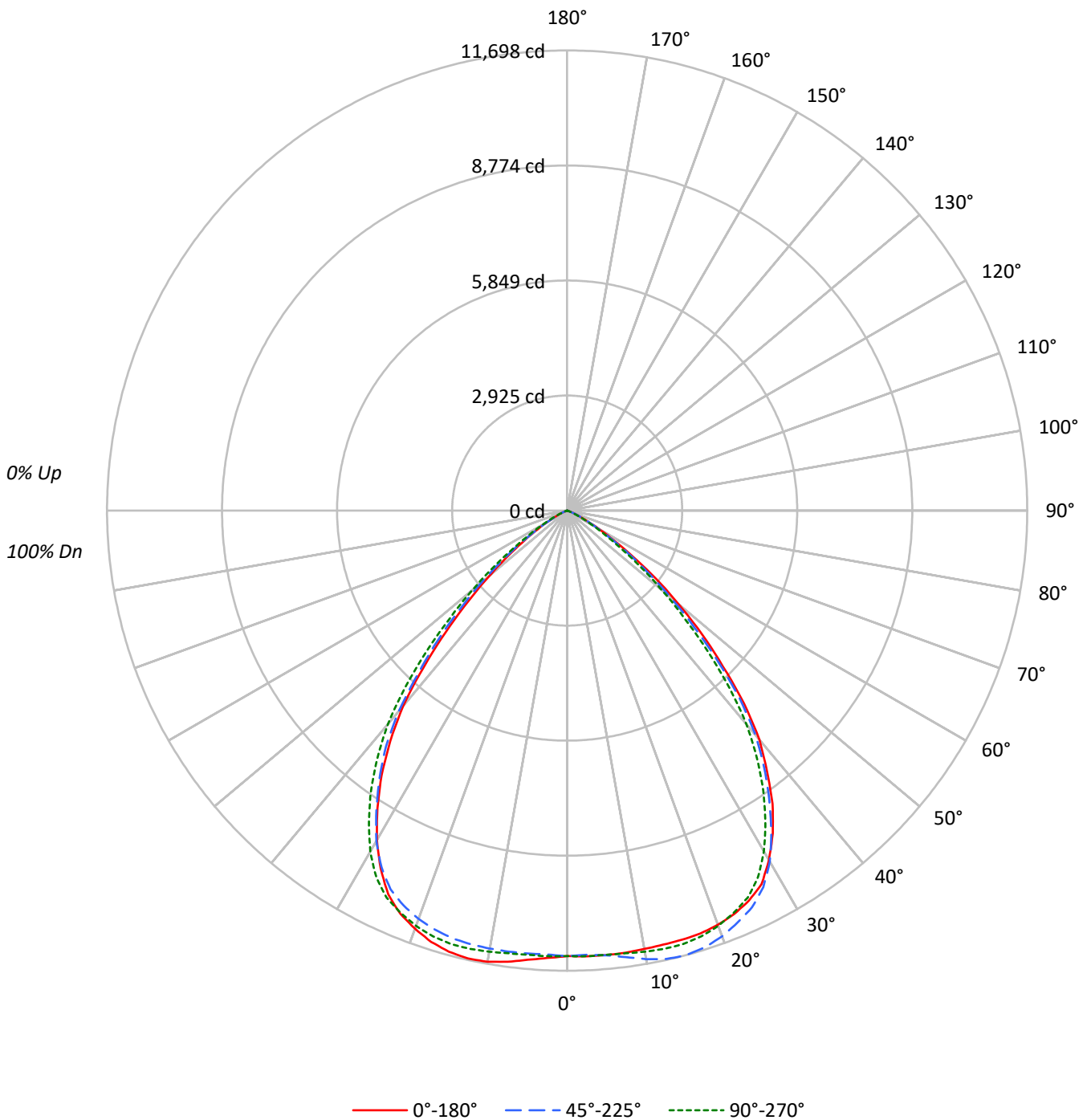
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	349249	349249	349249
5°	351106	350862	354740
10°	354352	356475	364641
15°	360560	364161	370578
20°	367735	368697	371217
25°	372217	369410	366184
30°	365207	356284	344306
35°	342630	327373	309480
40°	306075	285352	261268
45°	244102	219729	190437
50°	176832	150942	122945
55°	109679	89223	70530
60°	56400	44355	35437
65°	24057	18037	13841
70°	7636	3769	2443
75°	2014	1215	1215
80°	1598	994	799
85°	1203	389	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1086.0	5.3
10°-20°	3232.2	15.8
20°-30°	4968.2	24.4
30°-40°	5370.5	26.3
40°-50°	3864.6	18.9
50°-60°	1559.4	7.6
60°-70°	299.9	1.5
70°-80°	17.8	0.1
80°-90°	2.5	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°	9286.3	45.5
0°-40°	14656.8	71.8
0°-60°	20080.8	98.4
0°-90°	20401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20401.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11326	11326	11326	11326	11326	
5°	11343	11346	11335	11302	11460	###
15°	11294	11698	11407	11257	11608	3197
25°	10940	11127	10857	10624	10762	5019
35°	9102	8957	8696	8320	8221	5636
45°	5598	5432	5039	4625	4367	4324
55°	2040	1886	1660	1434	1312	1902
65°	330	336	247	193	190	386
75°	17	14	10	10	10	28
85°	3	2	1	1	1	4
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°	11325.9	11325.9	11325.9	11325.9	11325.9	11325.9	11325.9	11325.9	11325.9
2.5°	11342.8	11327.0	11304.4	11303.3	11339.4	11319.1	11294.3	11320.2	11384.6
5°	11342.8	11345.1	11346.2	11336.0	11334.9	11301.0	11302.2	11372.2	11460.2
7.5°	11334.9	11378.9	11447.8	11432.0	11353.0	11278.4	11308.9	11450.1	11567.5
10°	11316.8	11419.6	11577.6	11553.9	11384.6	11258.1	11306.7	11503.1	11645.4
12.5°	11301.0	11442.1	11675.8	11647.6	11410.5	11244.6	11293.1	11509.9	11663.4
15°	11294.3	11446.7	11698.4	11663.4	11407.1	11217.5	11257.0	11460.2	11608.1
17.5°	11269.4	11411.7	11642.0	11599.1	11348.4	11154.3	11171.2	11356.3	11496.3
20°	11206.2	11328.1	11516.7	11458.0	11235.5	11040.2	11045.9	11185.9	11312.3
22.5°	11098.9	11194.9	11331.5	11275.1	11067.3	10890.1	10866.4	10983.8	11089.9
25°	10939.8	11017.7	11127.2	11066.2	10857.3	10676.7	10623.6	10698.2	10762.5
27.5°	10706.1	10733.2	10795.2	10701.5	10508.5	10331.2	10220.6	10231.9	10265.8
30°	10256.7	10300.8	10306.4	10199.1	10006.1	9800.6	9699.0	9642.6	9669.7
32.5°	9728.4	9715.9	9659.5	9529.7	9378.4	9214.7	9022.8	8958.4	8973.1
35°	9101.8	9072.4	8957.3	8833.1	8696.5	8495.5	8320.5	8225.7	8221.2
37.5°	8338.6	8299.1	8223.4	8051.8	7926.5	7757.2	7566.4	7461.4	7382.4
40°	7603.6	7541.5	7452.4	7246.9	7088.8	6852.9	6657.6	6511.9	6490.5
42.5°	6655.3	6624.8	6497.2	6290.6	6093.1	5814.2	5587.3	5465.4	5402.1
45°	5597.5	5597.5	5431.5	5249.7	5038.6	4830.9	4625.4	4443.6	4366.9
47.5°	4650.2	4532.8	4375.9	4181.7	4027.0	3880.3	3662.4	3438.9	3386.9
50°	3686.1	3611.6	3426.4	3241.3	3146.4	3006.5	2834.9	2618.1	2562.8
52.5°	2848.4	2731.0	2570.7	2432.9	2343.7	2234.2	2048.0	1900.1	1871.8
55°	2040.1	1980.2	1886.5	1773.6	1659.6	1544.4	1433.8	1349.1	1311.9
57.5°	1397.7	1377.3	1299.4	1232.8	1122.2	1020.6	919.0	891.9	894.1
60°	914.5	913.3	875.0	815.1	719.2	626.6	579.2	565.6	574.6
62.5°	553.2	563.4	553.2	518.2	444.8	373.7	339.8	346.6	341.0
65°	329.7	339.8	336.4	291.3	247.2	216.8	193.1	184.0	189.7
67.5°	191.9	186.3	171.6	150.2	123.1	101.6	85.8	77.9	79.0
70°	84.7	80.2	72.3	55.3	41.8	33.9	28.2	26.0	27.1
72.5°	31.6	30.5	26.0	21.5	18.1	14.7	13.5	13.5	13.5
75°	16.9	15.8	13.5	11.3	10.2	10.2	10.2	10.2	10.2
77.5°	12.4	11.3	10.2	9.0	7.9	6.8	6.8	6.8	6.8
80°	9.0	7.9	6.8	5.6	5.6	4.5	4.5	4.5	4.5
82.5°	5.6	5.6	4.5	3.4	3.4	2.3	2.3	2.3	2.3
85°	3.4	3.4	2.3	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)