

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: P248136

Luminaire Tested: **LD8B175D010 ER8B175840 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248136
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 ER8B175840 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20268.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

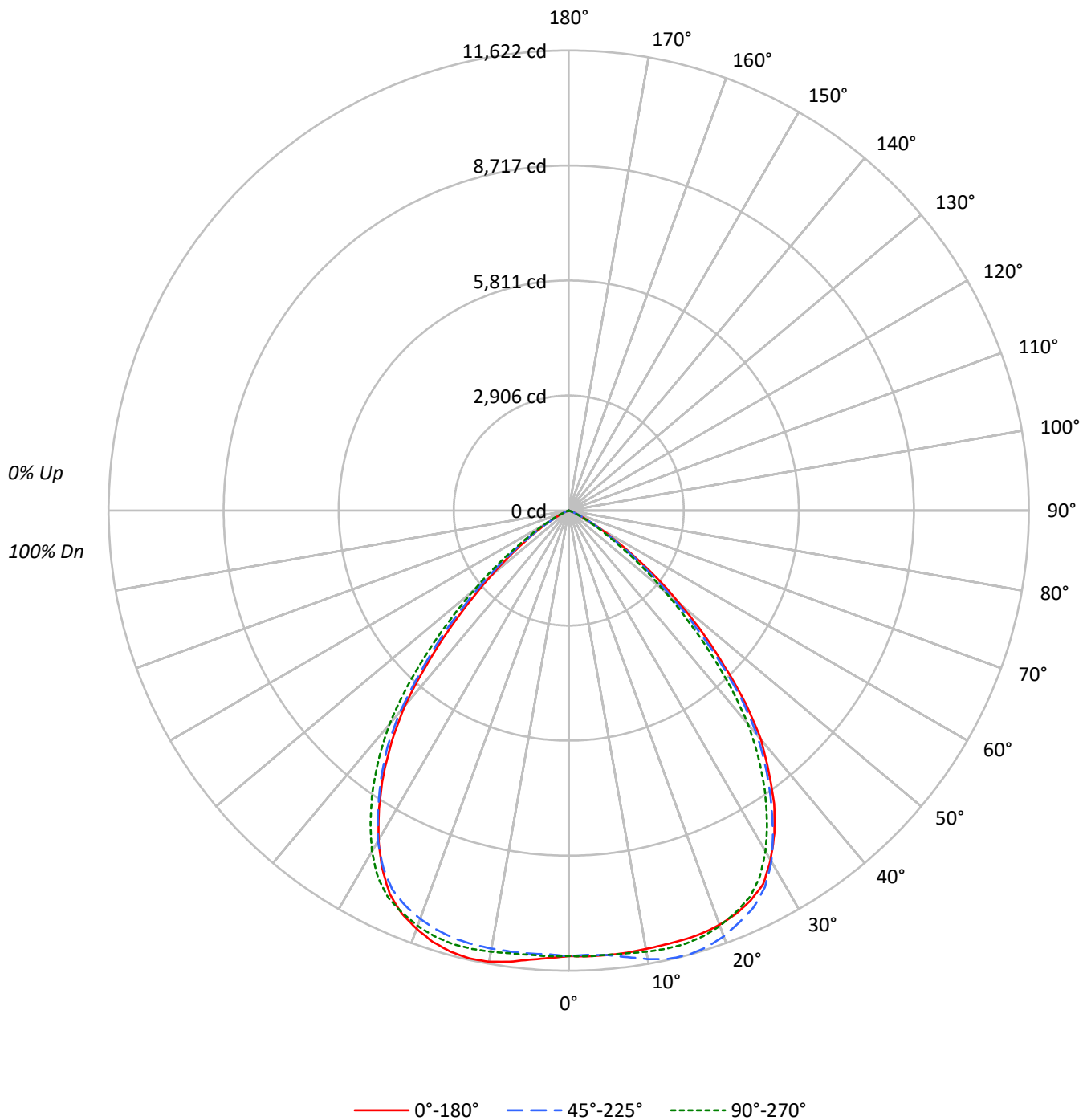
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	103	110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	99	94	90	103	97	93	89		94	90	87		91	88	85		88	86	84
3	98	90	84	79	96	89	83	79		86	81	78		84	80	76		81	78	75
4	92	82	76	71	90	81	75	70		79	74	69		77	72	68		75	71	68
5	86	75	68	63	84	74	68	63		72	67	62		71	66	62		69	65	61
6	80	69	62	57	78	68	61	56		67	61	56		65	60	56		64	59	55
7	75	64	56	51	73	63	56	51		62	55	51		60	55	50		59	54	50
8	70	59	52	47	69	58	51	46		57	51	46		56	50	46		55	50	46
9	66	54	47	43	65	54	47	43		53	47	42		52	46	42		51	46	42
10	62	51	44	39	61	50	44	39		49	43	39		48	43	39		48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	346970	346970	346970
5°	348819	348574	352428
10°	352044	354151	362261
15°	358208	361789	368162
20°	365336	366294	368798
25°	369788	367004	363796
30°	362829	353963	342059
35°	340394	325238	307463
40°	304082	283492	259566
45°	242510	218299	189194
50°	175681	149958	122144
55°	108964	88642	70067
60°	56030	44065	35209
65°	23896	17920	13747
70°	7582	3742	2425
75°	2002	1203	1203
80°	1598	994	799
85°	1203	389	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1078.9	5.3
10°-20°	3211.1	15.8
20°-30°	4935.8	24.4
30°-40°	5335.5	26.3
40°-50°	3839.4	18.9
50°-60°	1549.3	7.6
60°-70°	297.9	1.5
70°-80°	17.7	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°	9225.8	45.5
0°-40°	14561.3	71.8
0°-60°	19949.9	98.4
0°-90°	20268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11252	11252	11252	11252	11252	
5°	11269	11272	11261	11228	11386	###
15°	11221	11622	11333	11184	11532	3176
25°	10868	11055	10787	10554	10692	4986
35°	9042	8899	8640	8266	8168	5600
45°	5561	5396	5006	4595	4338	4296
55°	2027	1874	1649	1424	1303	1889
65°	328	334	246	192	188	383
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°	11252.0	11252.0	11252.0	11252.0	11252.0	11252.0	11252.0	11252.0	11252.0
2.5°	11268.9	11253.1	11230.7	11229.6	11265.5	11245.3	11220.6	11246.4	11310.4
5°	11268.9	11271.1	11272.2	11262.1	11261.0	11227.4	11228.5	11298.0	11385.5
7.5°	11261.0	11304.7	11373.2	11357.5	11278.9	11204.9	11235.2	11375.4	11492.1
10°	11243.1	11345.1	11502.1	11478.6	11310.4	11184.7	11233.0	11428.1	11569.4
12.5°	11227.4	11367.6	11599.7	11571.7	11336.1	11171.3	11219.5	11434.8	11587.4
15°	11220.6	11372.0	11622.2	11587.4	11332.8	11144.4	11183.6	11385.5	11532.4
17.5°	11195.9	11337.3	11566.1	11523.5	11274.5	11081.5	11098.4	11282.3	11421.4
20°	11133.1	11254.3	11441.6	11383.3	11162.3	10968.3	10973.9	11112.9	11238.6
22.5°	11026.6	11121.9	11257.6	11201.6	10995.2	10819.1	10795.5	10912.2	11017.6
25°	10868.4	10945.8	11054.6	10994.1	10786.6	10607.1	10554.4	10628.4	10692.3
27.5°	10636.3	10663.2	10724.9	10631.8	10440.0	10263.9	10154.0	10165.2	10198.8
30°	10189.9	10233.6	10239.2	10132.7	9940.9	9736.7	9635.8	9579.7	9606.6
32.5°	9664.9	9652.6	9596.5	9467.5	9317.2	9154.6	8963.9	8900.0	8914.6
35°	9042.4	9013.3	8898.9	8775.5	8639.8	8440.1	8266.3	8172.1	8167.6
37.5°	8284.2	8245.0	8169.8	7999.3	7874.8	7706.6	7517.1	7412.7	7334.2
40°	7554.1	7492.4	7403.8	7199.6	7042.6	6808.2	6614.2	6469.5	6448.2
42.5°	6611.9	6581.6	6454.9	6249.6	6053.3	5776.3	5550.9	5429.7	5366.9
45°	5561.0	5561.0	5396.1	5215.5	5005.8	4799.4	4595.3	4414.7	4338.4
47.5°	4619.9	4503.3	4347.4	4154.5	4000.8	3855.0	3638.5	3416.4	3364.8
50°	3662.1	3588.0	3404.1	3220.2	3125.9	2986.9	2816.4	2601.0	2546.1
52.5°	2829.8	2713.2	2553.9	2417.1	2328.5	2219.7	2034.6	1887.7	1859.6
55°	2026.8	1967.3	1874.2	1762.1	1648.8	1534.4	1424.4	1340.3	1303.3
57.5°	1388.6	1368.4	1291.0	1224.8	1114.9	1013.9	913.0	886.1	888.3
60°	908.5	907.4	869.3	809.8	714.5	622.5	575.4	561.9	570.9
62.5°	549.6	559.7	549.6	514.8	441.9	371.3	337.6	344.3	338.7
65°	327.5	337.6	334.2	289.4	245.6	215.3	191.8	182.8	188.4
67.5°	190.7	185.1	170.5	149.2	122.3	100.9	85.2	77.4	78.5
70°	84.1	79.6	71.8	55.0	41.5	33.6	28.0	25.8	26.9
72.5°	31.4	30.3	25.8	21.3	17.9	14.6	13.5	13.5	13.5
75°	16.8	15.7	13.5	11.2	10.1	10.1	10.1	10.1	10.1
77.5°	12.3	11.2	10.1	9.0	7.9	6.7	6.7	6.7	6.7
80°	9.0	7.9	6.7	5.6	5.6	4.5	4.5	4.5	4.5
82.5°	5.6	5.6	4.5	3.4	3.4	2.2	2.2	2.2	2.2
85°	3.4	3.4	2.2	2.2	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)