

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: P248127

Luminaire Tested: **LD8B175D010 ER8B175827 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248127
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 ER8B175827 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19139.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

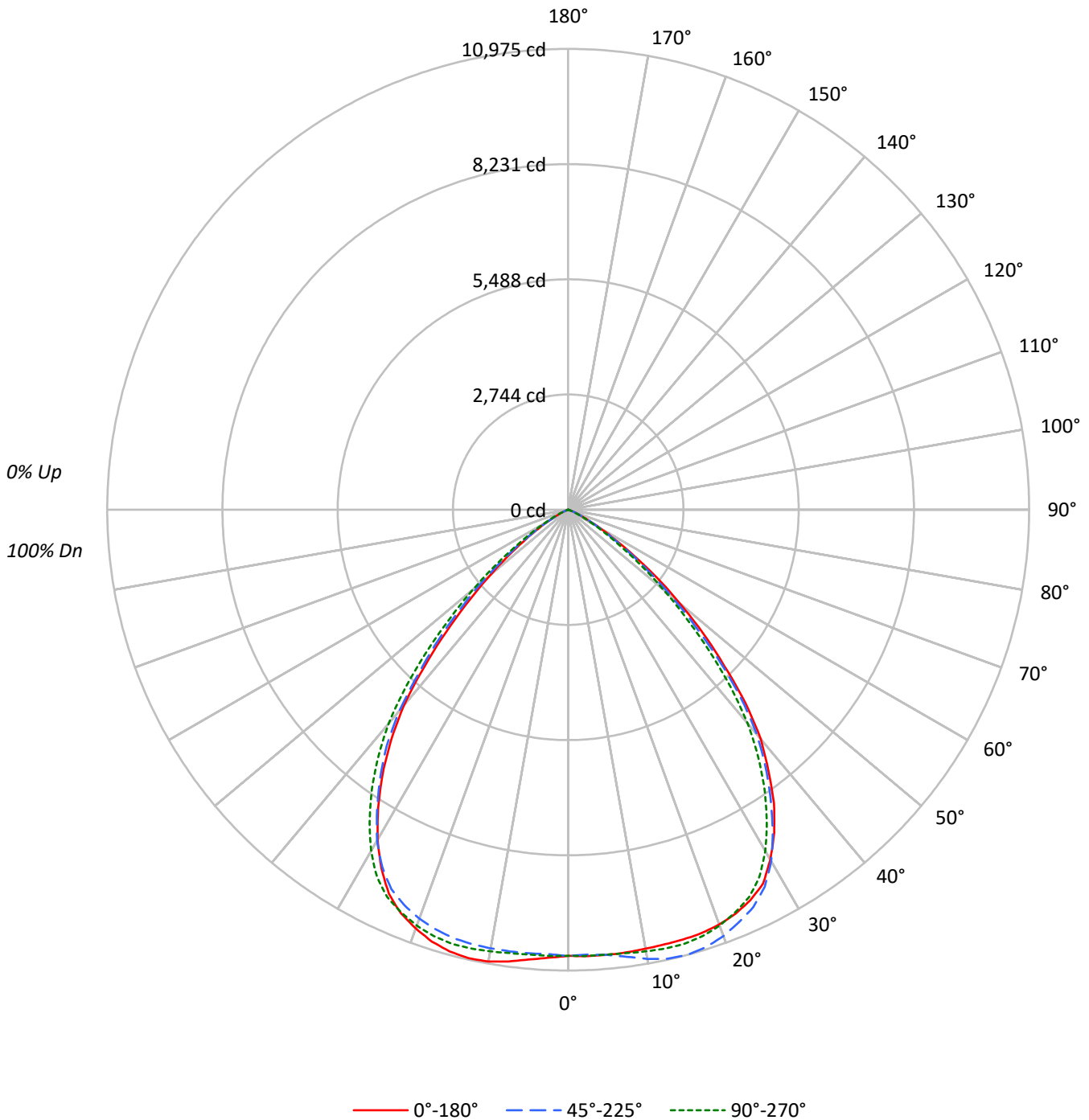
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	327642	327642	327642
5°	329386	329157	332797
10°	332433	334422	342084
15°	338255	341636	347653
20°	344987	345890	348253
25°	349189	346559	343531
30°	342615	334244	323006
35°	321436	307120	290335
40°	287143	267701	245106
45°	229000	206136	178654
50°	165895	141606	115336
55°	102894	83701	66164
60°	52909	41611	33248
65°	22568	16928	12980
70°	7159	3534	2290
75°	1894	1132	1132
80°	1509	941	746
85°	1132	389	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1018.8	5.3
10°-20°	3032.2	15.8
20°-30°	4660.8	24.4
30°-40°	5038.3	26.3
40°-50°	3625.5	18.9
50°-60°	1463.0	7.6
60°-70°	281.3	1.5
70°-80°	16.7	0.1
80°-90°	2.4	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°	8711.8	45.5
0°-40°	13750.1	71.8
0°-60°	18838.6	98.4
0°-90°	19139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19139.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10625	10625	10625	10625	10625	
5°	10641	10644	10634	10603	10751	###
15°	10596	10975	10702	10561	10890	2999
25°	10263	10439	10186	9966	10097	4708
35°	8539	8403	8158	7806	7713	5288
45°	5251	5096	4727	4339	4097	4056
55°	1914	1770	1557	1345	1231	1784
65°	309	316	232	181	178	362
75°	16	13	10	10	10	27
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°	10625.2	10625.2	10625.2	10625.2	10625.2	10625.2	10625.2	10625.2	10625.2
2.5°	10641.1	10626.3	10605.1	10604.1	10638.0	10618.9	10595.6	10620.0	10680.3
5°	10641.1	10643.3	10644.3	10634.8	10633.7	10601.9	10603.0	10668.7	10751.3
7.5°	10633.7	10675.0	10739.6	10724.8	10650.7	10580.8	10609.4	10741.8	10851.9
10°	10616.8	10713.2	10861.4	10839.2	10680.3	10561.7	10607.2	10791.5	10925.0
12.5°	10601.9	10734.3	10953.6	10927.1	10704.7	10549.0	10594.5	10797.9	10941.9
15°	10595.6	10738.6	10974.8	10941.9	10701.5	10523.6	10560.6	10751.3	10890.0
17.5°	10572.3	10705.7	10921.8	10881.6	10646.4	10464.3	10480.1	10653.8	10785.2
20°	10513.0	10627.4	10804.2	10749.2	10540.5	10357.3	10362.6	10493.9	10612.5
22.5°	10412.4	10502.4	10630.5	10577.6	10382.7	10216.4	10194.2	10304.3	10403.9
25°	10263.0	10336.1	10438.8	10381.6	10185.7	10016.2	9966.5	10036.4	10096.7
27.5°	10043.8	10069.2	10127.5	10039.5	9858.4	9692.2	9588.4	9598.9	9630.7
30°	9622.2	9663.6	9668.8	9568.2	9387.1	9194.4	9099.0	9046.1	9071.5
32.5°	9126.6	9114.9	9062.0	8940.2	8798.2	8644.7	8464.6	8404.2	8418.0
35°	8538.8	8511.2	8403.2	8286.7	8158.5	7970.0	7805.8	7716.9	7712.6
37.5°	7822.8	7785.7	7714.7	7553.8	7436.2	7277.3	7098.3	6999.8	6925.7
40°	7133.3	7075.0	6991.4	6798.6	6650.3	6429.0	6245.7	6109.1	6089.0
42.5°	6243.6	6215.0	6095.3	5901.5	5716.2	5454.5	5241.7	5127.3	5068.0
45°	5251.2	5251.2	5095.5	4925.0	4726.9	4532.0	4339.3	4168.8	4096.7
47.5°	4362.6	4252.4	4105.2	3923.0	3777.9	3640.2	3435.8	3226.1	3177.4
50°	3458.1	3388.2	3214.5	3040.8	2951.8	2820.5	2659.5	2456.1	2404.2
52.5°	2672.2	2562.0	2411.7	2282.4	2198.8	2096.0	1921.3	1782.5	1756.0
55°	1913.9	1857.7	1769.8	1663.9	1556.9	1448.9	1345.1	1265.7	1230.7
57.5°	1311.2	1292.1	1219.1	1156.6	1052.8	957.5	862.1	836.7	838.8
60°	857.9	856.8	820.8	764.7	674.7	587.8	543.3	530.6	539.1
62.5°	519.0	528.5	519.0	486.1	417.3	350.6	318.8	325.2	319.9
65°	309.3	318.8	315.6	273.3	232.0	203.4	181.1	172.6	177.9
67.5°	180.1	174.8	161.0	140.9	115.4	95.3	80.5	73.1	74.1
70°	79.4	75.2	67.8	51.9	39.2	31.8	26.5	24.4	25.4
72.5°	29.7	28.6	24.4	20.1	16.9	13.8	12.7	12.7	12.7
75°	15.9	14.8	12.7	10.6	9.5	9.5	9.5	9.5	9.5
77.5°	11.7	10.6	9.5	8.5	7.4	6.4	6.4	6.4	6.4
80°	8.5	7.4	6.4	5.3	5.3	4.2	4.2	4.2	4.2
82.5°	5.3	5.3	4.2	3.2	3.2	2.1	2.1	2.1	2.1
85°	3.2	3.2	2.1	2.1	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)