

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: P248151

Luminaire Tested: **LD8B175D010 ER8B175940 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248151
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 ER8B175940 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18171.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

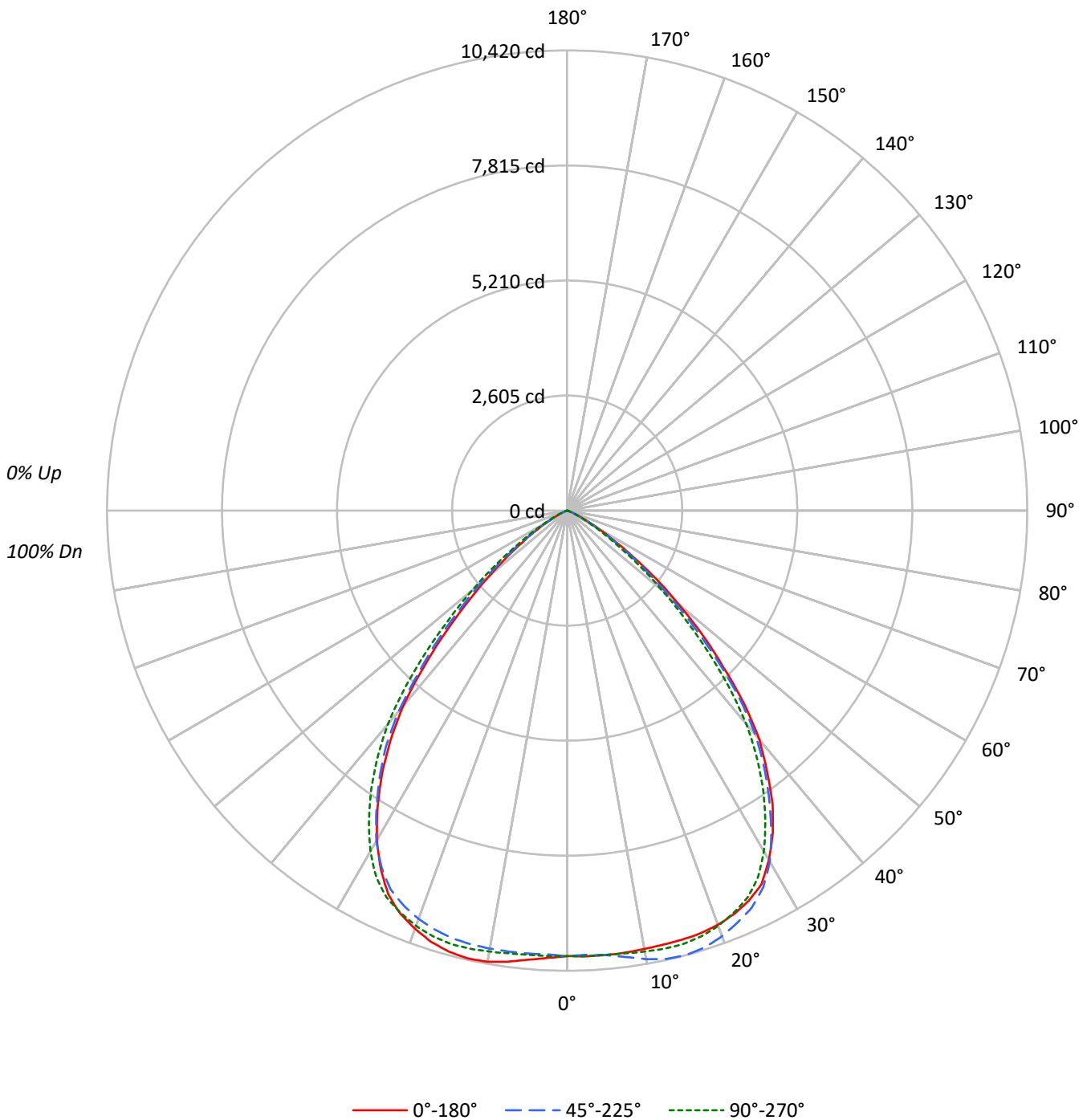
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	311074	311074	311074
5°	312726	312510	315964
10°	315619	317507	324781
15°	321147	324358	330070
20°	327540	328396	330641
25°	331528	329030	326159
30°	325289	317338	306670
35°	305178	291588	275650
40°	272620	254163	232708
45°	217418	195709	169618
50°	157504	134444	109503
55°	97690	79470	62820
60°	50232	39501	31564
65°	21423	16067	12324
70°	6798	3354	2173
75°	1799	1084	1084
80°	1421	888	710
85°	1061	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.2	5.3
10°-20°	2878.9	15.8
20°-30°	4425.1	24.4
30°-40°	4783.5	26.3
40°-50°	3442.1	18.9
50°-60°	1389.0	7.6
60°-70°	267.1	1.5
70°-80°	15.9	0.1
80°-90°	2.2	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°	8271.2	45.5
0°-40°	13054.7	71.8
0°-60°	17885.8	98.4
0°-90°	18171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18171.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10088	10088	10088	10088	10088	
5°	10103	10106	10096	10067	10208	964
15°	10060	10420	10160	10026	10339	2847
25°	9744	9911	9670	9462	9586	4470
35°	8107	7978	7746	7411	7322	5020
45°	4986	4838	4488	4120	3890	3851
55°	1817	1680	1478	1277	1168	1694
65°	294	300	220	172	169	343
75°	15	12	9	9	9	25
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°	10087.9	10087.9	10087.9	10087.9	10087.9	10087.9	10087.9	10087.9	10087.9
2.5°	10102.9	10088.9	10068.7	10067.7	10099.9	10081.8	10059.7	10082.8	10140.1
5°	10102.9	10104.9	10106.0	10096.9	10095.9	10065.7	10066.7	10129.1	10207.5
7.5°	10095.9	10135.1	10196.5	10182.4	10112.0	10045.6	10072.8	10198.5	10303.0
10°	10079.8	10171.3	10312.1	10291.0	10140.1	10027.5	10070.8	10245.7	10372.4
12.5°	10065.7	10191.4	10399.6	10374.4	10163.3	10015.5	10058.7	10251.8	10388.5
15°	10059.7	10195.4	10419.7	10388.5	10160.3	9991.3	10026.5	10207.5	10339.2
17.5°	10037.6	10164.3	10369.4	10331.2	10108.0	9935.0	9950.1	10115.0	10239.7
20°	9981.3	10089.9	10257.8	10205.5	10007.4	9833.4	9838.5	9963.2	10075.8
22.5°	9885.7	9971.2	10092.9	10042.6	9857.6	9699.7	9678.6	9783.2	9877.7
25°	9743.9	9813.3	9910.9	9856.6	9670.5	9509.7	9462.4	9528.8	9586.1
27.5°	9535.8	9559.9	9615.2	9531.8	9359.8	9201.9	9103.4	9113.5	9143.6
30°	9135.6	9174.8	9179.8	9084.3	8912.3	8729.3	8638.8	8588.6	8612.7
32.5°	8665.0	8653.9	8603.6	8488.0	8353.2	8207.4	8036.5	7979.2	7992.2
35°	8106.9	8080.7	7978.2	7867.6	7745.9	7566.9	7411.0	7326.6	7322.5
37.5°	7427.1	7391.9	7324.6	7171.7	7060.1	6909.3	6739.3	6645.8	6575.4
40°	6772.5	6717.2	6637.8	6454.7	6314.0	6103.8	5929.8	5800.1	5781.0
42.5°	5927.8	5900.7	5787.0	5603.0	5427.0	5178.7	4976.6	4868.0	4811.6
45°	4985.6	4985.6	4837.8	4675.9	4487.8	4302.8	4119.8	3957.9	3889.5
47.5°	4141.9	4037.4	3897.6	3724.6	3586.9	3456.1	3262.1	3063.0	3016.7
50°	3283.2	3216.8	3051.9	2887.0	2802.5	2677.8	2525.0	2331.9	2282.6
52.5°	2537.0	2432.5	2289.7	2167.0	2087.6	1990.0	1824.1	1692.4	1667.2
55°	1817.1	1763.8	1680.3	1579.7	1478.2	1375.6	1277.1	1201.7	1168.5
57.5°	1244.9	1226.8	1157.4	1098.1	999.5	909.0	818.5	794.4	796.4
60°	814.5	813.5	779.3	726.0	640.5	558.1	515.9	503.8	511.8
62.5°	492.7	501.8	492.7	461.6	396.2	332.8	302.7	308.7	303.7
65°	293.6	302.7	299.7	259.4	220.2	193.1	172.0	163.9	168.9
67.5°	170.9	165.9	152.8	133.7	109.6	90.5	76.4	69.4	70.4
70°	75.4	71.4	64.4	49.3	37.2	30.2	25.1	23.1	24.1
72.5°	28.2	27.2	23.1	19.1	16.1	13.1	12.1	12.1	12.1
75°	15.1	14.1	12.1	10.1	9.1	9.1	9.1	9.1	9.1
77.5°	11.1	10.1	9.1	8.0	7.0	6.0	6.0	6.0	6.0
80°	8.0	7.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0
82.5°	5.0	5.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0
85°	3.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)