

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: P247902

Luminaire Tested: **LD8B175D010 ER8B175950 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18883.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

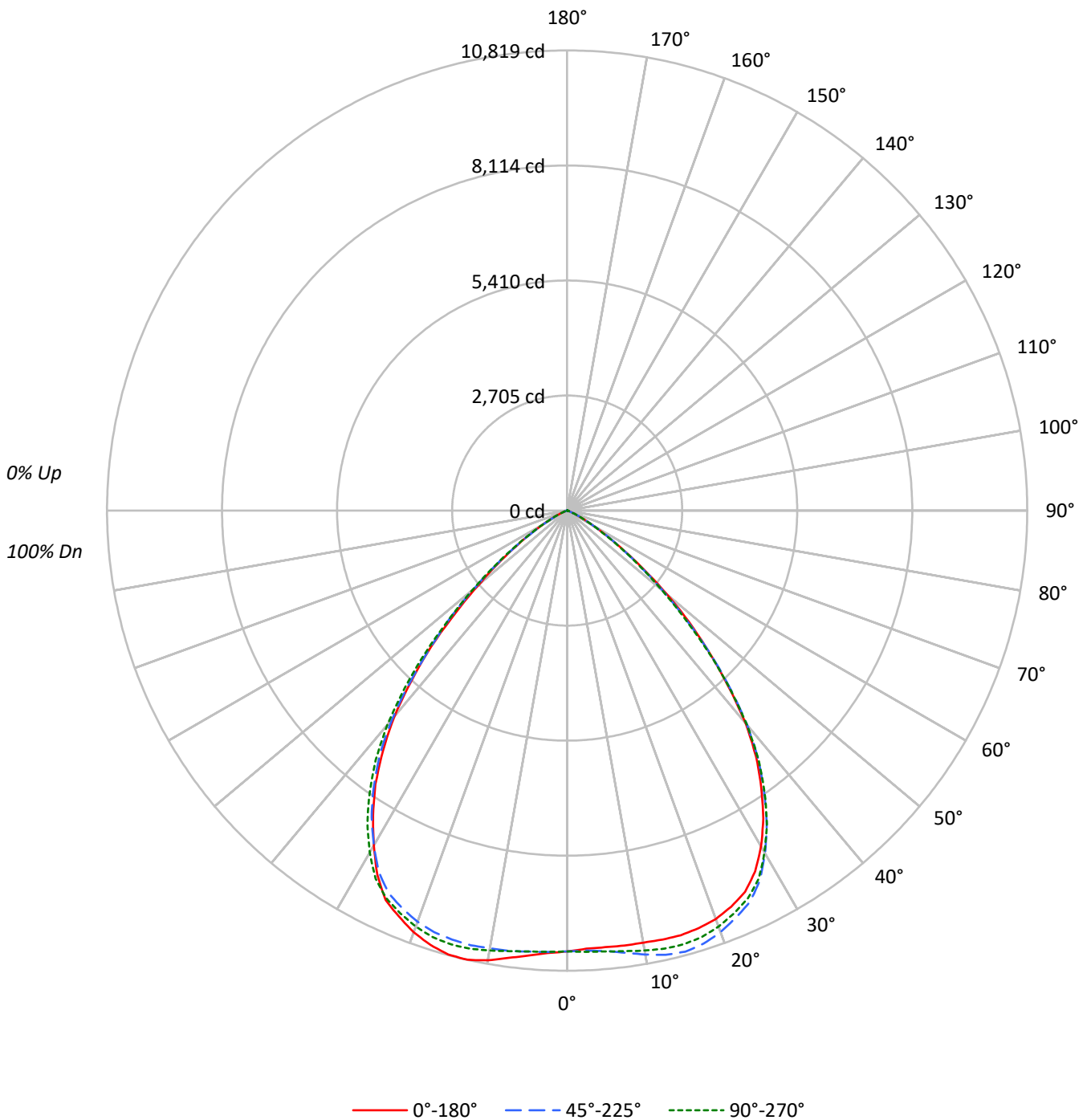
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	319575	319575	319575
5°	318960	322022	325018
10°	322974	328876	336178
15°	329952	337099	344943
20°	335336	341522	346234
25°	336638	342129	343793
30°	324715	330388	323565
35°	299478	304730	295752
40°	262568	264541	254481
45°	206180	204501	196690
50°	146495	139654	130112
55°	87153	84018	78701
60°	43726	41931	41611
65°	18387	17701	18154
70°	6852	5914	5725
75°	2728	2979	2979
80°	3143	2220	746
85°	3326	6262	2583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.7	5.3
10°-20°	2984.1	15.8
20°-30°	4586.3	24.3
30°-40°	4961.5	26.3
40°-50°	3576.1	18.9
50°-60°	1451.6	7.7
60°-70°	289.9	1.5
70°-80°	29.0	0.2
80°-90°	7.8	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°	8567.0	45.4
0°-40°	13528.5	71.6
0°-60°	18556.2	98.3
0°-90°	18883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18883.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10364	10364	10364	10364	10364	
5°	10304	10392	10403	10407	10500	984
15°	10336	10736	10559	10442	10805	2920
25°	9894	10158	10056	9926	10104	4522
35°	7956	8072	8095	7929	7856	4940
45°	4728	4751	4689	4532	4510	3647
55°	1621	1571	1563	1510	1464	1521
65°	252	273	243	231	249	300
75°	23	28	25	24	25	30
85°	9	14	18	8	7	8
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°	10363.6	10363.6	10363.6	10363.6	10363.6	10363.6	10363.6	10363.6	10363.6
2.5°	10310.5	10376.1	10354.3	10326.2	10385.5	10374.1	10386.5	10391.8	10411.5
5°	10304.3	10378.2	10391.8	10361.6	10403.2	10383.4	10407.4	10452.1	10500.0
7.5°	10314.7	10426.1	10484.4	10466.7	10446.9	10379.3	10441.7	10544.8	10608.3
10°	10314.7	10462.6	10597.9	10596.9	10503.2	10377.2	10446.9	10625.0	10736.4
12.5°	10331.4	10512.5	10697.9	10710.3	10551.0	10391.8	10466.7	10677.0	10818.6
15°	10335.5	10513.6	10736.4	10742.6	10559.4	10372.0	10441.7	10667.7	10805.1
17.5°	10291.8	10463.6	10674.9	10696.8	10512.5	10322.0	10392.8	10594.8	10704.1
20°	10218.9	10373.0	10544.8	10581.2	10407.4	10226.2	10288.7	10462.6	10551.0
22.5°	10079.4	10220.0	10361.6	10388.6	10249.1	10090.9	10122.1	10257.4	10331.4
25°	9894.1	10033.6	10157.5	10172.1	10055.5	9913.9	9926.4	10029.4	10104.4
27.5°	9565.1	9697.3	9809.7	9827.4	9757.7	9606.7	9583.8	9632.8	9664.0
30°	9119.5	9210.0	9303.7	9360.0	9278.8	9153.8	9089.3	9115.3	9087.2
32.5°	8584.3	8677.0	8734.2	8751.9	8739.4	8630.1	8554.1	8488.5	8492.7
35°	7955.5	8039.8	8072.1	8104.3	8095.0	8009.6	7929.4	7868.0	7856.5
37.5°	7296.4	7352.6	7389.1	7414.1	7393.2	7339.1	7235.0	7128.8	7111.1
40°	6522.8	6608.2	6579.0	6591.5	6571.8	6503.0	6398.9	6338.5	6321.9
42.5°	5614.9	5689.9	5683.7	5687.8	5644.1	5550.4	5459.8	5426.5	5408.8
45°	4727.9	4764.3	4750.8	4707.1	4689.4	4631.1	4532.1	4468.6	4510.3
47.5°	3892.9	3880.4	3789.8	3754.4	3728.4	3736.7	3714.8	3603.4	3543.0
50°	3053.7	3021.4	2935.0	2881.9	2911.1	2934.0	2852.8	2786.1	2712.2
52.5°	2264.5	2270.8	2188.5	2130.2	2157.3	2161.4	2113.5	2076.1	2054.2
55°	1621.1	1621.1	1571.1	1552.4	1562.8	1543.0	1509.7	1497.2	1463.9
57.5°	1102.6	1109.9	1106.7	1084.9	1035.9	1018.2	999.5	1018.2	1029.7
60°	709.0	726.7	723.6	721.5	679.9	638.2	655.9	672.6	674.7
62.5°	436.2	444.6	459.1	446.7	425.8	392.5	388.4	413.3	436.2
65°	252.0	261.3	272.8	264.5	242.6	237.4	231.1	244.7	248.8
67.5°	143.7	139.5	140.6	134.3	128.1	120.8	121.8	128.1	137.4
70°	76.0	65.6	66.6	60.4	65.6	58.3	56.2	61.4	63.5
72.5°	38.5	37.5	42.7	42.7	45.8	40.6	40.6	38.5	43.7
75°	22.9	26.0	28.1	31.2	25.0	23.9	23.9	23.9	25.0
77.5°	6.2	3.1	4.2	13.5	5.2	10.4	5.2	4.2	9.4
80°	17.7	10.4	6.2	11.5	12.5	6.2	15.6	14.6	4.2
82.5°	6.2	0.0	11.5	12.5	10.4	10.4	12.5	12.5	11.5
85°	9.4	6.2	13.5	15.6	17.7	10.4	8.3	5.2	7.3
87.5°	4.2	0.0	6.2	5.2	3.1	1.0	3.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)