

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: P247949

Luminaire Tested: **LD8B150D010 ER8B150830 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150830 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16952.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

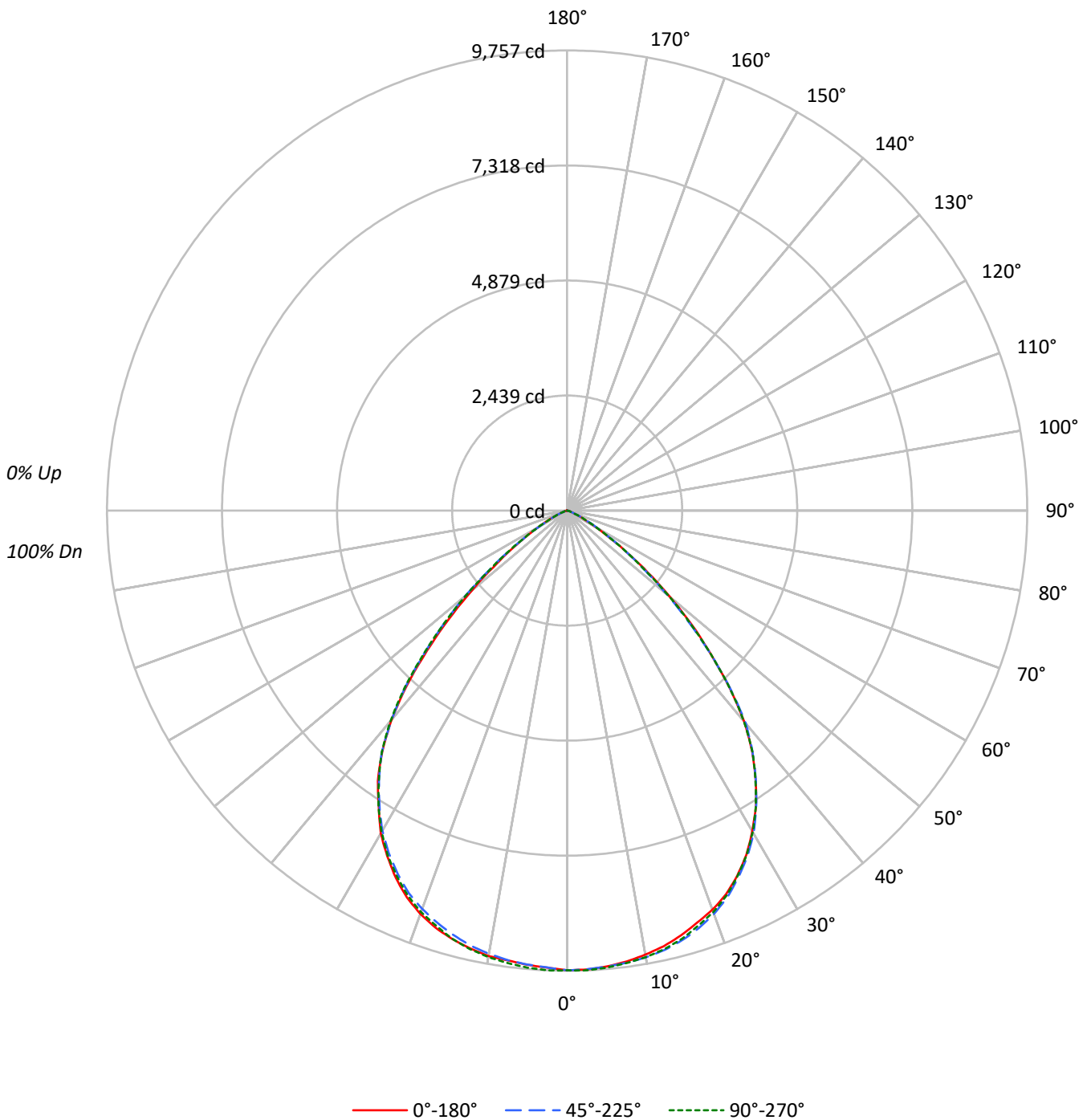
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	300577	300577	300577
5°	300354	301069	299252
10°	299312	300968	300304
15°	297702	300096	300310
20°	295535	297271	298596
25°	290518	290848	292481
30°	279516	280132	281400
35°	262421	261951	263472
40°	235284	234664	233002
45°	187920	187881	183141
50°	135816	134525	126778
55°	83239	82615	78841
60°	42764	44423	43769
65°	20839	21685	22035
70°	8935	9187	8754
75°	6994	6994	6076
80°	3765	3410	3072
85°	3078	2052	4423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	922.9	5.4
10°-20°	2647.2	15.6
20°-30°	3932.7	23.2
30°-40°	4333.9	25.6
40°-50°	3301.0	19.5
50°-60°	1423.0	8.4
60°-70°	326.9	1.9
70°-80°	54.3	0.3
80°-90°	10.2	0.1
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°	7502.7	44.3
0°-40°	11836.6	69.8
0°-60°	16560.6	97.7
0°-90°	16952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16952.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9748	9748	9748	9748	9748	
5°	9703	9702	9726	9661	9668	922
15°	9325	9429	9400	9317	9407	2630
25°	8539	8587	8548	8498	8596	3919
35°	6971	6975	6959	6953	6999	4328
45°	4309	4301	4308	4285	4200	3324
55°	1548	1547	1537	1546	1466	1444
65°	286	314	297	295	302	319
75°	59	59	59	60	51	54
85°	9	6	6	17	12	9
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°	9747.5	9747.5	9747.5	9747.5	9747.5	9747.5	9747.5	9747.5	9747.5
2.5°	9736.9	9737.8	9731.1	9745.5	9757.1	9719.6	9697.4	9747.5	9699.4
5°	9703.2	9709.9	9702.3	9720.5	9726.3	9695.5	9660.9	9714.8	9667.6
7.5°	9645.5	9659.0	9670.5	9691.7	9676.3	9637.8	9614.7	9678.2	9620.5
10°	9559.0	9592.6	9617.6	9649.4	9611.9	9570.5	9542.6	9629.2	9590.7
12.5°	9461.8	9500.3	9542.6	9581.1	9524.3	9463.8	9449.3	9541.7	9507.0
15°	9325.3	9360.9	9429.1	9465.7	9400.3	9331.1	9316.6	9434.0	9407.0
17.5°	9164.7	9227.2	9284.9	9313.7	9231.0	9171.4	9163.7	9284.9	9274.3
20°	9006.0	9039.7	9099.3	9137.8	9058.9	8987.7	8984.9	9109.9	9099.3
22.5°	8805.0	8834.8	8874.3	8909.8	8835.8	8776.2	8780.0	8882.9	8881.0
25°	8538.6	8558.8	8586.7	8626.2	8548.3	8505.9	8498.2	8607.9	8596.3
27.5°	8228.0	8241.5	8273.2	8306.9	8239.6	8202.1	8188.6	8298.2	8259.8
30°	7850.1	7880.9	7903.0	7917.4	7867.4	7844.3	7834.7	7921.2	7903.0
32.5°	7449.1	7459.6	7460.6	7496.2	7443.3	7410.6	7410.6	7479.8	7438.5
35°	6971.1	6969.2	6975.0	7013.4	6958.6	6970.2	6952.9	7007.7	6999.0
37.5°	6447.0	6455.7	6457.6	6488.4	6457.6	6465.3	6458.6	6467.2	6439.3
40°	5845.0	5882.5	5895.0	5889.2	5829.6	5809.4	5792.1	5823.9	5788.3
42.5°	5097.8	5115.1	5117.0	5120.9	5104.5	5101.6	5080.5	5093.9	5038.2
45°	4309.2	4316.9	4300.6	4297.7	4308.3	4324.6	4285.2	4254.4	4199.6
47.5°	3588.9	3562.0	3488.0	3514.9	3526.4	3567.8	3525.5	3442.8	3397.6
50°	2831.1	2803.3	2746.5	2759.0	2804.2	2866.7	2817.7	2703.2	2642.7
52.5°	2162.8	2131.1	2067.6	2079.1	2092.6	2139.7	2113.7	2035.8	1977.2
55°	1548.3	1526.2	1547.3	1530.0	1536.7	1581.9	1546.4	1481.9	1466.5
57.5°	1046.3	1058.8	1076.1	1079.0	1065.5	1052.1	1047.3	1022.3	1035.7
60°	693.4	703.0	731.8	740.5	720.3	691.4	697.2	697.2	709.7
62.5°	448.1	456.8	490.5	496.2	467.4	459.7	459.7	456.8	479.9
65°	285.6	302.9	313.5	298.1	297.2	286.6	295.2	295.2	302.0
67.5°	171.2	155.8	166.4	173.1	166.4	157.7	155.8	156.8	166.4
70°	99.1	95.2	101.9	98.1	101.9	88.5	99.1	94.2	97.1
72.5°	63.5	62.5	62.5	66.4	62.5	60.6	64.4	55.8	61.5
75°	58.7	58.7	58.7	51.0	58.7	56.7	59.6	45.2	51.0
77.5°	23.1	26.9	32.7	31.7	31.7	29.8	26.9	23.1	35.6
80°	21.2	19.2	26.0	30.8	19.2	23.1	26.0	16.3	17.3
82.5°	10.6	9.6	12.5	12.5	12.5	6.7	17.3	10.6	8.7
85°	8.7	3.8	5.8	5.8	5.8	7.7	17.3	4.8	12.5
87.5°	1.9	2.9	4.8	4.8	5.8	9.6	17.3	3.8	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)