

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: P247976

Luminaire Tested: **LD8B150D010 ER8B150927 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247976
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 ER8B150927 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13808.3 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

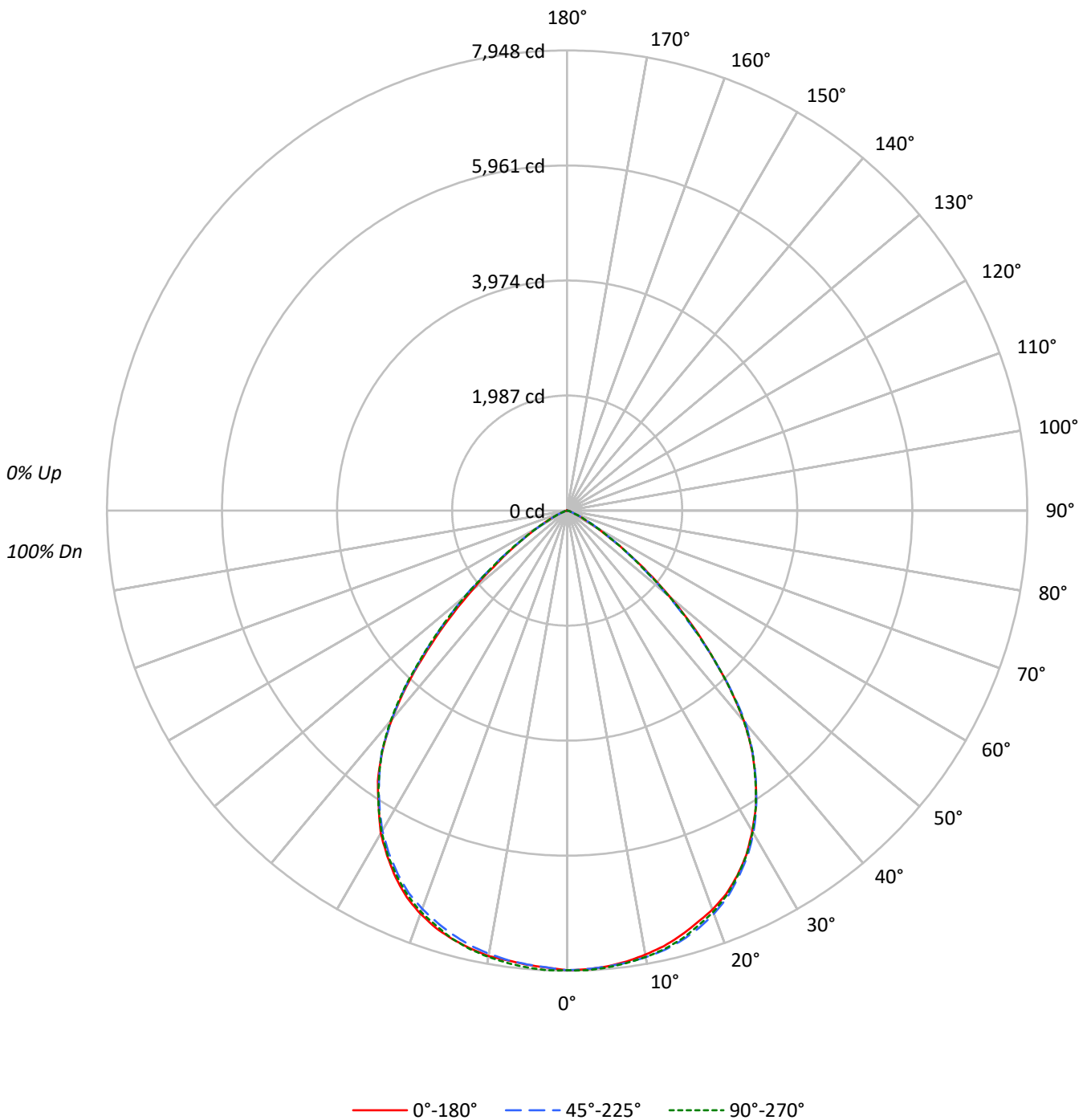
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.7	5.4
10°-20°	2156.2	15.6
20°-30°	3203.3	23.2
30°-40°	3530.2	25.6
40°-50°	2688.8	19.5
50°-60°	1159.1	8.4
60°-70°	266.3	1.9
70°-80°	44.3	0.3
80°-90°	8.3	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°	6111.3	44.3
0°-40°	9641.5	69.8
0°-60°	13489.4	97.7
0°-90°	13808.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13808.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7940	7940	7940	7940	7940	
5°	7904	7903	7923	7869	7875	751
15°	7596	7680	7657	7589	7662	2143
25°	6955	6994	6963	6922	7002	3192
35°	5678	5682	5668	5664	5701	3525
45°	3510	3503	3509	3490	3421	2708
55°	1261	1260	1252	1260	1194	1176
65°	233	255	242	240	246	260
75°	48	48	48	49	42	44
85°	7	5	5	14	10	7
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°	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8
2.5°	7931.1	7931.9	7926.5	7938.2	7947.7	7917.1	7899.1	7939.8	7900.6
5°	7903.8	7909.2	7903.0	7917.9	7922.6	7897.5	7869.3	7913.1	7874.8
7.5°	7856.8	7867.7	7877.1	7894.4	7881.9	7850.5	7831.7	7883.4	7836.4
10°	7786.2	7813.7	7834.0	7859.9	7829.3	7795.7	7773.0	7843.4	7812.1
12.5°	7707.2	7738.4	7773.0	7804.2	7758.0	7708.7	7696.9	7772.2	7743.9
15°	7595.9	7624.9	7680.5	7710.3	7657.0	7600.6	7588.9	7684.4	7662.5
17.5°	7465.0	7516.0	7563.0	7586.6	7519.2	7470.6	7464.3	7563.0	7554.4
20°	7335.8	7363.2	7411.8	7443.1	7378.9	7320.9	7318.6	7420.4	7411.8
22.5°	7172.1	7196.4	7228.6	7257.5	7197.2	7148.6	7151.7	7235.6	7234.0
25°	6955.2	6971.6	6994.4	7026.4	6963.0	6928.5	6922.2	7011.6	7002.1
27.5°	6702.2	6713.1	6739.0	6766.3	6711.5	6681.0	6670.0	6759.3	6728.0
30°	6394.3	6419.4	6437.4	6449.2	6408.3	6389.6	6381.8	6452.2	6437.4
32.5°	6067.7	6076.2	6077.0	6106.0	6063.0	6036.3	6036.3	6092.7	6059.0
35°	5678.3	5676.8	5681.5	5712.8	5668.1	5677.5	5663.5	5708.1	5701.0
37.5°	5251.4	5258.5	5260.0	5285.1	5260.0	5266.3	5260.8	5267.8	5245.2
40°	4761.0	4791.6	4801.8	4797.1	4748.5	4732.1	4718.0	4743.8	4714.9
42.5°	4152.4	4166.6	4168.1	4171.2	4157.9	4155.5	4138.3	4149.2	4103.9
45°	3510.1	3516.3	3503.0	3500.7	3509.3	3522.6	3490.5	3465.4	3420.8
47.5°	2923.4	2901.5	2841.1	2863.0	2872.5	2906.1	2871.7	2804.3	2767.5
50°	2306.1	2283.4	2237.2	2247.4	2284.2	2335.0	2295.1	2202.0	2152.6
52.5°	1761.8	1735.9	1684.1	1693.6	1704.5	1742.8	1721.7	1658.2	1610.6
55°	1261.1	1243.1	1260.3	1246.3	1251.8	1288.6	1259.6	1207.1	1194.5
57.5°	852.3	862.4	876.5	878.8	867.9	856.9	853.1	832.7	843.6
60°	564.8	572.6	596.1	603.1	586.7	563.2	567.9	567.9	578.1
62.5°	365.1	372.0	399.5	404.2	380.7	374.4	374.4	372.0	390.8
65°	232.6	246.7	255.4	242.8	242.1	233.4	240.5	240.5	245.9
67.5°	139.4	126.9	135.6	141.0	135.6	128.5	126.9	127.7	135.6
70°	80.7	77.5	83.0	79.9	83.0	72.1	80.7	76.7	79.1
72.5°	51.8	51.0	51.0	54.0	51.0	49.4	52.5	45.4	50.2
75°	47.8	47.8	47.8	41.5	47.8	46.2	48.6	36.8	41.5
77.5°	18.8	21.9	26.7	25.9	25.9	24.3	21.9	18.8	29.0
80°	17.2	15.6	21.2	25.1	15.6	18.8	21.2	13.3	14.1
82.5°	8.7	7.9	10.2	10.2	10.2	5.5	14.1	8.7	7.1
85°	7.1	3.2	4.7	4.7	4.7	6.3	14.1	3.9	10.2
87.5°	1.6	2.4	3.9	3.9	4.7	7.9	14.1	3.2	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)