

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: P248084

Luminaire Tested: **LD8B150D010 ER8B150927 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150927 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13563.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

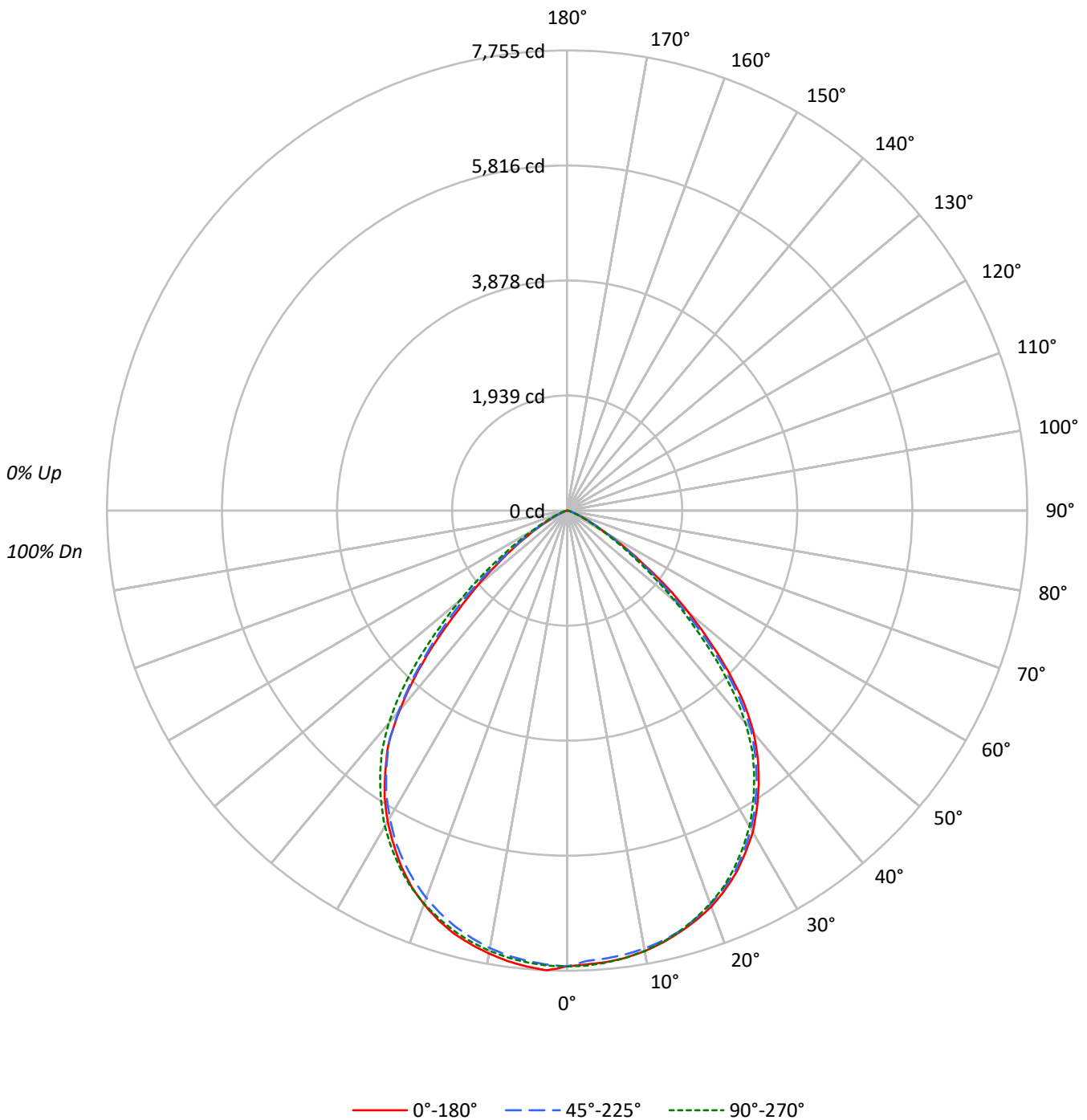
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	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°	725.5	5.3
10°-20°	2066.3	15.2
20°-30°	3052.6	22.5
30°-40°	3401.8	25.1
40°-50°	2686.5	19.8
50°-60°	1240.6	9.1
60°-70°	318.7	2.3
70°-80°	61.4	0.5
80°-90°	9.6	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°	5844.4	43.1
0°-40°	9246.2	68.2
0°-60°	13173.3	97.1
0°-90°	13563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13563.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7682	7682	7682	7682	7682	
5°	7637	7576	7645	7622	7713	726
15°	7352	7335	7339	7262	7379	2075
25°	6736	6705	6656	6523	6616	3096
35°	5631	5568	5496	5312	5343	3507
45°	3848	3736	3541	3259	3144	2937
55°	1567	1477	1365	1169	1100	1452
65°	340	345	304	233	216	373
75°	56	60	61	46	38	68
85°	9	9	7	4	3	12
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°	7682.0	7682.0	7682.0	7682.0	7682.0	7682.0	7682.0	7682.0	7682.0
2.5°	7652.9	7688.9	7597.4	7671.7	7674.9	7622.4	7658.4	7701.5	7754.7
5°	7637.3	7674.1	7576.2	7645.0	7645.0	7587.9	7621.6	7659.2	7713.2
7.5°	7600.5	7640.4	7544.0	7608.3	7598.1	7535.5	7565.2	7602.0	7660.0
10°	7539.3	7588.7	7494.8	7555.8	7534.7	7462.6	7488.4	7526.8	7580.8
12.5°	7455.5	7514.3	7426.6	7479.8	7446.2	7363.9	7385.1	7434.3	7487.7
15°	7352.1	7412.5	7334.9	7381.1	7338.8	7247.1	7262.1	7312.2	7378.8
17.5°	7237.0	7295.7	7208.8	7259.0	7202.5	7107.8	7113.3	7171.2	7231.5
20°	7104.6	7153.2	7063.9	7111.7	7048.2	6944.1	6944.8	6996.5	7059.2
22.5°	6930.7	6981.6	6889.2	6929.1	6871.2	6760.0	6746.6	6796.8	6857.1
25°	6736.5	6789.7	6705.1	6719.2	6655.7	6540.6	6522.6	6559.4	6615.8
27.5°	6503.8	6556.3	6460.8	6478.8	6409.0	6298.5	6274.3	6293.9	6338.6
30°	6256.2	6289.2	6198.3	6213.3	6145.9	6015.0	5978.2	6004.8	6048.7
32.5°	5951.6	5975.1	5897.6	5905.3	5832.6	5719.7	5671.1	5679.0	5723.7
35°	5631.2	5643.8	5568.5	5570.1	5495.7	5381.3	5312.4	5308.5	5343.0
37.5°	5277.9	5286.6	5210.6	5206.6	5129.9	5006.1	4934.0	4921.5	4942.7
40°	4890.2	4902.0	4822.9	4797.8	4680.2	4539.3	4421.8	4399.9	4391.2
42.5°	4420.2	4388.1	4305.0	4262.7	4144.5	3963.6	3854.7	3821.7	3793.6
45°	3847.6	3821.7	3735.6	3640.0	3541.4	3405.0	3258.6	3168.5	3144.2
47.5°	3246.9	3216.3	3092.5	3008.7	2911.6	2849.0	2691.5	2552.8	2492.4
50°	2663.2	2629.6	2491.8	2429.8	2372.6	2279.5	2126.7	2002.2	1979.4
52.5°	2123.5	2072.6	1954.4	1890.1	1839.3	1735.8	1598.0	1525.8	1487.5
55°	1566.7	1558.8	1476.6	1430.3	1365.3	1283.1	1168.6	1114.6	1099.8
57.5°	1141.3	1112.3	1081.0	1041.8	985.4	882.0	811.5	770.7	767.6
60°	766.9	776.2	776.2	733.2	674.4	607.1	550.7	528.8	529.5
62.5°	514.7	520.9	519.3	500.5	455.1	400.3	363.5	347.7	348.5
65°	340.0	338.4	344.7	331.3	304.0	265.5	232.6	224.0	216.2
67.5°	216.2	218.6	216.2	209.1	192.7	165.3	143.3	130.0	126.1
70°	131.6	128.5	129.3	127.7	115.9	102.6	87.0	75.9	72.9
72.5°	79.1	81.4	82.2	84.6	83.0	73.6	62.7	54.8	53.2
75°	56.4	57.2	59.5	61.9	61.1	54.8	46.2	40.7	38.4
77.5°	42.3	42.3	43.9	47.0	44.7	39.2	32.8	28.2	26.7
80°	29.0	29.8	30.6	30.6	28.2	25.1	19.6	16.4	14.8
82.5°	17.2	18.0	17.2	17.2	15.6	12.5	9.5	8.7	7.9
85°	8.7	8.7	8.7	8.7	7.1	5.5	3.9	3.2	3.2
87.5°	3.9	3.9	3.9	3.2	2.4	1.6	1.6	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)