

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: P248159

Luminaire Tested: **LD8B150D010 ER8B150930 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248159  
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: LD8B150D010 ER8B150930 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14921.6 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

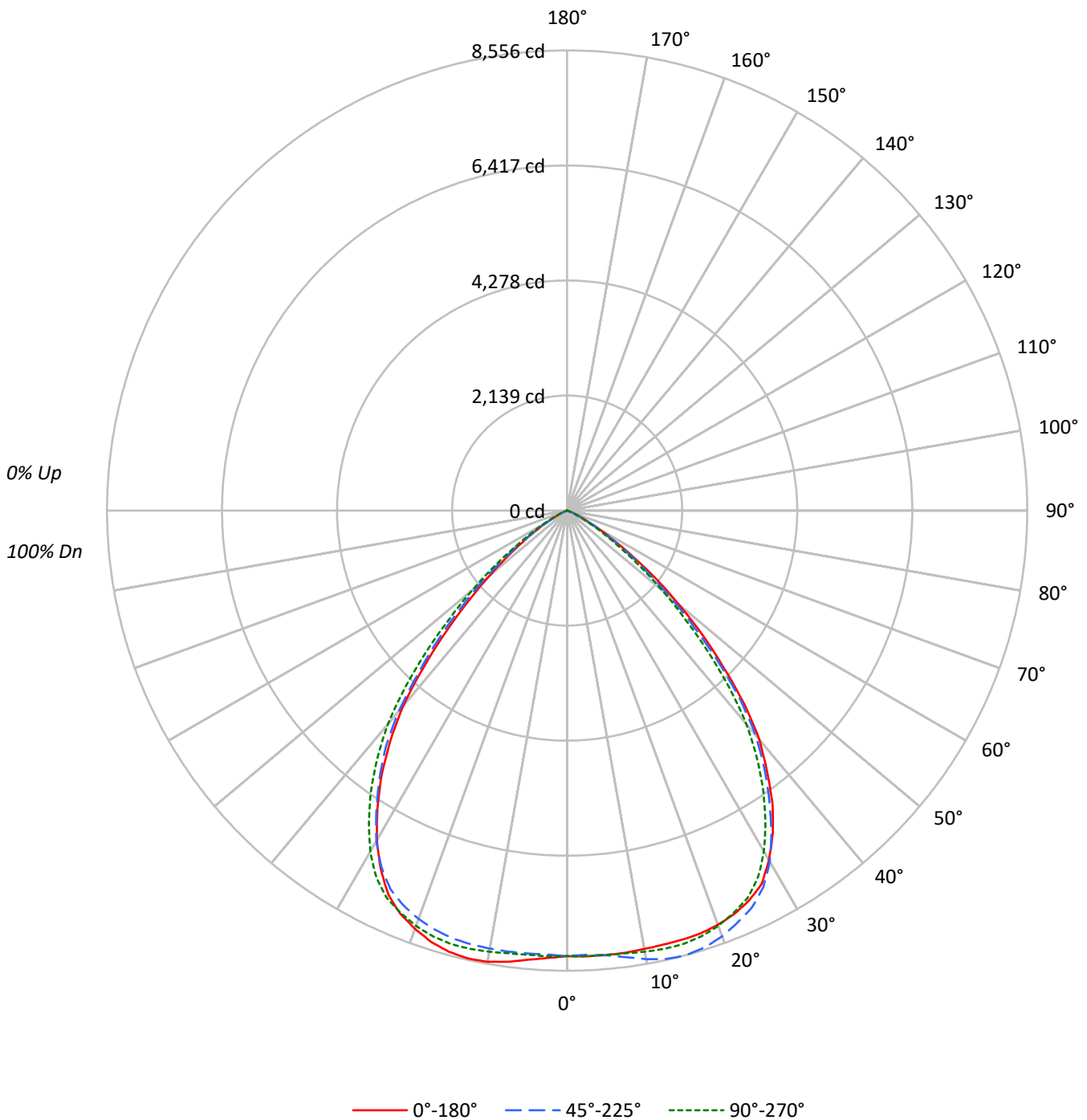
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**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°	794.3	5.3
10°-20°	2364.1	15.8
20°-30°	3633.8	24.4
30°-40°	3928.1	26.3
40°-50°	2826.6	18.9
50°-60°	1140.6	7.6
60°-70°	219.3	1.5
70°-80°	13.0	0.1
80°-90°	1.8	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°	6792.1	45.5
0°-40°	10720.2	71.8
0°-60°	14687.4	98.4
0°-90°	14921.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14921.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8284	8284	8284	8284	8284	
5°	8296	8299	8291	8267	8382	791
15°	8261	8556	8343	8234	8490	2338
25°	8002	8139	7941	7770	7872	3671
35°	6657	6552	6361	6086	6013	4122
45°	4094	3973	3685	3383	3194	3162
55°	1492	1380	1214	1049	960	1391
65°	241	246	181	141	139	282
75°	12	10	7	7	7	21
85°	2	2	1	1	1	3
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°	8284.0	8284.0	8284.0	8284.0	8284.0	8284.0	8284.0	8284.0	8284.0
2.5°	8296.3	8284.8	8268.3	8267.4	8293.8	8278.9	8260.8	8279.8	8326.9
5°	8296.3	8298.0	8298.8	8291.4	8290.6	8265.8	8266.6	8317.8	8382.2
7.5°	8290.6	8322.8	8373.1	8361.5	8303.7	8249.2	8271.5	8374.8	8460.6
10°	8277.4	8352.5	8468.0	8450.8	8326.9	8234.4	8269.8	8413.6	8517.6
12.5°	8265.8	8368.9	8539.9	8519.3	8345.8	8224.4	8260.0	8418.5	8530.8
15°	8260.8	8372.3	8556.4	8530.8	8343.4	8204.6	8233.5	8382.2	8490.3
17.5°	8242.6	8346.6	8515.1	8483.7	8300.4	8158.4	8170.7	8306.3	8408.6
20°	8196.4	8285.5	8423.5	8380.5	8217.8	8075.0	8079.2	8181.5	8274.0
22.5°	8117.9	8188.1	8288.0	8246.7	8094.9	7965.2	7947.9	8033.8	8111.3
25°	8001.5	8058.5	8138.6	8094.0	7941.3	7809.1	7770.3	7824.8	7871.9
27.5°	7830.6	7850.4	7895.9	7827.3	7686.1	7556.4	7475.5	7483.8	7508.6
30°	7502.0	7534.1	7538.3	7459.8	7318.7	7168.3	7094.0	7052.8	7072.5
32.5°	7115.4	7106.4	7065.1	6970.2	6859.5	6739.8	6599.4	6552.4	6563.0
35°	6657.2	6635.8	6551.5	6460.7	6360.8	6213.8	6085.8	6016.4	6013.2
37.5°	6099.0	6070.1	6014.7	5889.3	5797.6	5673.7	5534.2	5457.4	5399.6
40°	5561.4	5516.0	5450.8	5300.5	5184.8	5012.3	4869.4	4762.9	4747.2
42.5°	4867.8	4845.5	4752.1	4601.0	4456.5	4252.6	4086.6	3997.5	3951.2
45°	4094.1	4094.1	3972.7	3839.8	3685.3	3533.4	3383.1	3250.1	3194.0
47.5°	3401.2	3315.4	3200.6	3058.5	2945.4	2838.1	2678.7	2515.2	2477.3
50°	2696.1	2641.5	2506.1	2370.7	2301.4	2199.0	2073.5	1914.9	1874.4
52.5°	2083.4	1997.5	1880.3	1779.5	1714.2	1634.2	1497.9	1389.7	1369.1
55°	1492.2	1448.3	1379.8	1297.2	1213.8	1129.6	1048.7	986.8	959.6
57.5°	1022.2	1007.4	950.4	901.7	820.8	746.5	672.2	652.3	654.0
60°	668.9	668.0	640.0	596.1	526.0	458.3	423.6	413.6	420.3
62.5°	404.6	412.1	404.6	379.0	325.3	273.3	248.5	253.5	249.4
65°	241.1	248.5	246.1	213.0	180.8	158.5	141.2	134.6	138.8
67.5°	140.3	136.2	125.6	109.9	90.0	74.3	62.8	56.9	57.8
70°	61.9	58.6	52.8	40.5	30.6	24.8	20.6	18.9	19.8
72.5°	23.1	22.3	18.9	15.7	13.2	10.8	9.9	9.9	9.9
75°	12.3	11.5	9.9	8.3	7.4	7.4	7.4	7.4	7.4
77.5°	9.1	8.3	7.4	6.6	5.8	4.9	4.9	4.9	4.9
80°	6.6	5.8	4.9	4.1	4.1	3.3	3.3	3.3	3.3
82.5°	4.1	4.1	3.3	2.5	2.5	1.7	1.7	1.7	1.7
85°	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)