

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: P248156

Luminaire Tested: **LD8B150D010 ER8B150927 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248156  
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 ER8B150927 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14154.8 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

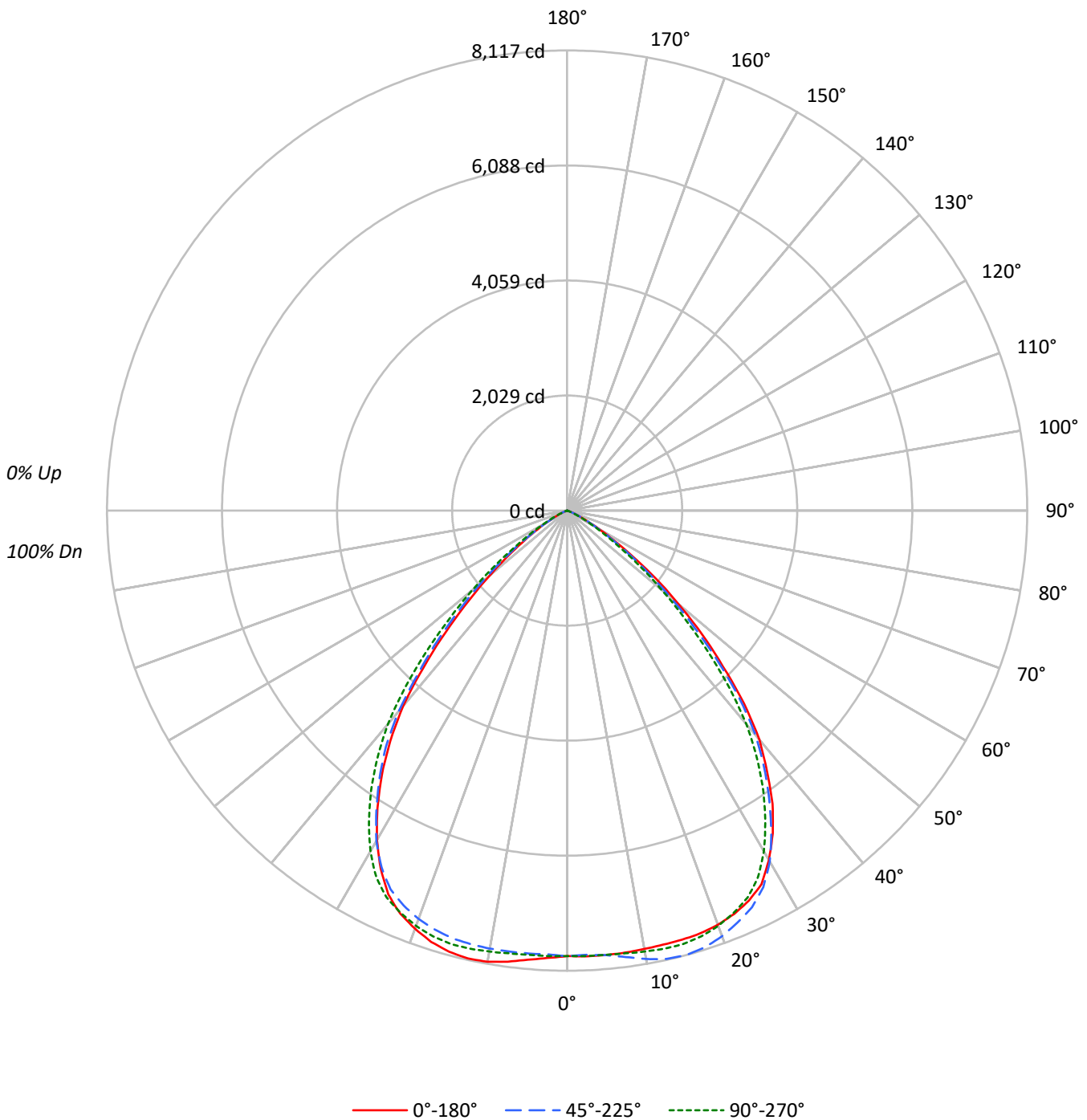
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	753.5	5.3
10°-20°	2242.6	15.8
20°-30°	3447.0	24.4
30°-40°	3726.2	26.3
40°-50°	2681.3	18.9
50°-60°	1082.0	7.6
60°-70°	208.0	1.5
70°-80°	12.4	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°	6443.1	45.5
0°-40°	10169.3	71.8
0°-60°	13932.6	98.4
0°-90°	14154.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14154.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7858	7858	7858	7858	7858	
5°	7870	7872	7864	7842	7951	751
15°	7836	8117	7915	7810	8054	2218
25°	7590	7720	7533	7371	7467	3482
35°	6315	6215	6034	5773	5704	3911
45°	3884	3768	3496	3209	3030	3000
55°	1416	1309	1151	995	910	1319
65°	229	233	172	134	132	268
75°	12	10	7	7	7	20
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°	7858.2	7858.2	7858.2	7858.2	7858.2	7858.2	7858.2	7858.2	7858.2
2.5°	7869.9	7858.9	7843.3	7842.5	7867.6	7853.5	7836.3	7854.3	7899.0
5°	7869.9	7871.5	7872.3	7865.2	7864.4	7840.9	7841.7	7890.3	7951.4
7.5°	7864.4	7895.0	7942.7	7931.8	7877.0	7825.3	7846.4	7944.3	8025.9
10°	7851.9	7923.2	8032.8	8016.4	7899.0	7811.2	7844.8	7981.2	8079.9
12.5°	7840.9	7938.9	8101.0	8081.4	7917.0	7801.8	7835.5	7985.8	8092.4
15°	7836.3	7942.0	8116.6	8092.4	7914.6	7783.0	7810.4	7951.4	8054.0
17.5°	7819.0	7917.8	8077.5	8047.7	7873.9	7739.1	7750.9	7879.3	7976.5
20°	7775.1	7859.7	7990.5	7949.8	7795.5	7660.0	7664.0	7761.0	7848.8
22.5°	7700.7	7767.3	7862.1	7822.9	7678.8	7555.8	7539.4	7620.9	7694.4
25°	7590.3	7644.4	7720.3	7678.0	7533.1	7407.8	7371.0	7422.6	7467.3
27.5°	7428.2	7446.9	7490.0	7425.0	7291.0	7168.0	7091.3	7099.2	7122.6
30°	7116.4	7146.9	7150.8	7076.5	6942.5	6800.0	6729.4	6690.3	6709.0
32.5°	6749.8	6741.2	6702.0	6612.0	6507.0	6393.4	6260.2	6215.6	6225.8
35°	6315.1	6294.7	6214.8	6128.7	6033.8	5894.4	5773.0	5707.2	5704.1
37.5°	5785.5	5758.1	5705.7	5586.5	5499.7	5382.1	5249.7	5176.9	5122.1
40°	5275.6	5232.5	5170.6	5028.1	4918.4	4754.7	4619.1	4518.1	4503.3
42.5°	4617.7	4596.5	4508.0	4364.7	4227.5	4034.0	3876.6	3792.0	3748.2
45°	3883.6	3883.6	3768.5	3642.4	3495.9	3351.8	3209.2	3083.1	3029.8
47.5°	3226.5	3145.0	3036.2	2901.4	2794.0	2692.2	2541.0	2386.0	2349.9
50°	2557.5	2505.8	2377.4	2248.9	2183.1	2086.0	1967.0	1816.5	1778.1
52.5°	1976.3	1894.8	1783.6	1688.1	1626.2	1550.1	1420.9	1318.3	1298.7
55°	1415.5	1374.0	1308.9	1230.6	1151.4	1071.6	994.8	936.1	910.2
57.5°	969.8	955.7	901.6	855.3	778.6	708.1	637.6	618.9	620.4
60°	634.5	633.7	607.1	565.5	498.9	434.7	401.8	392.4	398.7
62.5°	383.8	390.8	383.8	359.6	308.6	259.3	235.8	240.5	236.6
65°	228.7	235.8	233.4	202.0	171.6	150.4	134.0	127.7	131.6
67.5°	133.2	129.3	119.0	104.2	85.4	70.5	59.5	54.0	54.8
70°	58.7	55.6	50.2	38.4	29.0	23.5	19.6	18.0	18.8
72.5°	21.9	21.2	18.0	14.8	12.5	10.2	9.5	9.5	9.5
75°	11.7	10.9	9.5	7.9	7.1	7.1	7.1	7.1	7.1
77.5°	8.7	7.9	7.1	6.3	5.5	4.7	4.7	4.7	4.7
80°	6.3	5.5	4.7	3.9	3.9	3.2	3.2	3.2	3.2
82.5°	3.9	3.9	3.2	2.4	2.4	1.6	1.6	1.6	1.6
85°	2.4	2.4	1.6	1.6	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)