

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 ER8B1509730 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 ER8B1509730 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: 13311.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 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

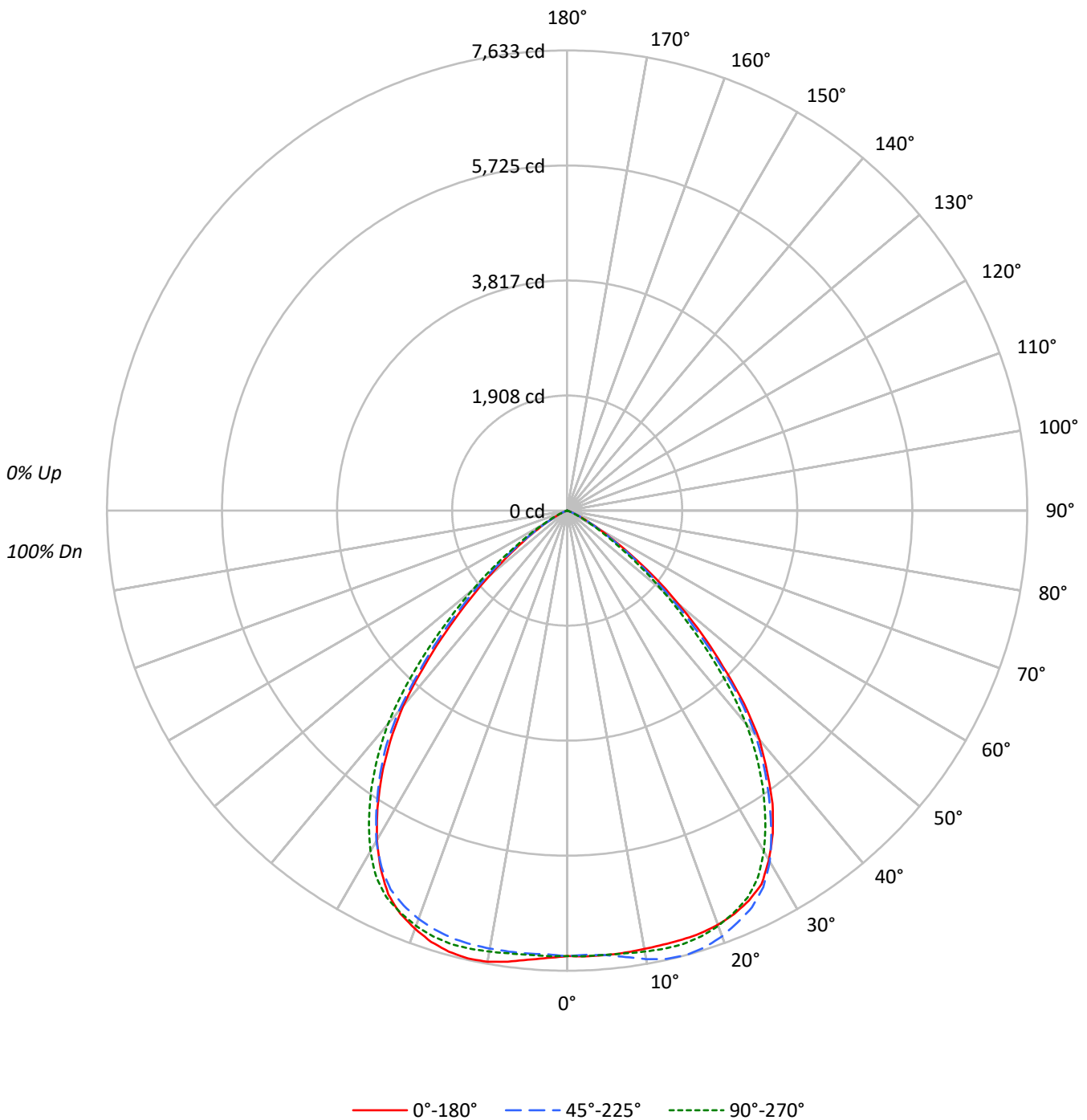
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	708.6	5.3
10°-20°	2108.9	15.8
20°-30°	3241.6	24.4
30°-40°	3504.1	26.3
40°-50°	2521.5	18.9
50°-60°	1017.5	7.6
60°-70°	195.6	1.5
70°-80°	11.6	0.1
80°-90°	1.6	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°	6059.0	45.5
0°-40°	9563.1	71.8
0°-60°	13102.1	98.4
0°-90°	13311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7390	7390	7390	7390	7390	
5°	7401	7403	7396	7374	7477	706
15°	7369	7633	7443	7345	7574	2086
25°	7138	7260	7084	6932	7022	3275
35°	5939	5844	5674	5429	5364	3677
45°	3652	3544	3288	3018	2849	2821
55°	1331	1231	1083	936	856	1241
65°	215	220	161	126	124	252
75°	11	9	7	7	7	18
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°	7389.8	7389.8	7389.8	7389.8	7389.8	7389.8	7389.8	7389.8	7389.8
2.5°	7400.8	7390.5	7375.8	7375.0	7398.6	7385.3	7369.1	7386.1	7428.1
5°	7400.8	7402.3	7403.0	7396.4	7395.7	7373.6	7374.3	7420.0	7477.4
7.5°	7395.7	7424.4	7469.3	7459.0	7407.4	7358.8	7378.7	7470.8	7547.4
10°	7383.9	7450.9	7554.0	7538.6	7428.1	7345.6	7377.2	7505.4	7598.2
12.5°	7373.6	7465.6	7618.1	7599.7	7445.0	7336.7	7368.4	7509.8	7610.0
15°	7369.1	7468.6	7632.8	7610.0	7442.8	7319.0	7344.8	7477.4	7573.9
17.5°	7352.9	7445.7	7596.0	7568.0	7404.5	7277.8	7288.8	7409.7	7501.0
20°	7311.7	7391.2	7514.3	7475.9	7330.8	7203.4	7207.1	7298.4	7380.9
22.5°	7241.7	7304.3	7393.4	7356.6	7221.1	7105.4	7090.0	7166.6	7235.8
25°	7137.8	7188.7	7260.1	7220.3	7084.1	6966.2	6931.6	6980.2	7022.2
27.5°	6985.4	7003.0	7043.6	6982.4	6856.5	6740.8	6668.6	6676.0	6698.1
30°	6692.2	6720.9	6724.6	6654.6	6528.7	6394.6	6328.3	6291.5	6309.1
32.5°	6347.4	6339.3	6302.5	6217.8	6119.1	6012.3	5887.1	5845.1	5854.6
35°	5938.6	5919.5	5844.3	5763.3	5674.2	5543.1	5428.9	5367.0	5364.1
37.5°	5440.7	5414.9	5365.5	5253.6	5171.8	5061.3	4936.8	4868.3	4816.8
40°	4961.1	4920.6	4862.4	4728.4	4625.2	4471.3	4343.8	4248.8	4234.8
42.5°	4342.4	4322.5	4239.2	4104.4	3975.5	3793.6	3645.5	3566.0	3524.7
45°	3652.2	3652.2	3543.9	3425.3	3287.5	3152.0	3017.9	2899.3	2849.2
47.5°	3034.1	2957.5	2855.1	2728.4	2627.5	2531.8	2389.6	2243.7	2209.9
50°	2405.1	2356.4	2235.6	2114.8	2053.0	1961.6	1849.7	1708.2	1672.1
52.5°	1858.5	1781.9	1677.3	1587.4	1529.2	1457.8	1336.2	1239.7	1221.3
55°	1331.1	1292.0	1230.9	1157.2	1082.8	1007.7	935.5	880.3	856.0
57.5°	911.9	898.7	847.8	804.4	732.2	665.9	599.6	581.9	583.4
60°	596.7	595.9	570.9	531.8	469.2	408.8	377.9	369.0	374.9
62.5°	360.9	367.6	360.9	338.1	290.2	243.8	221.7	226.1	222.5
65°	215.1	221.7	219.5	190.0	161.3	141.4	126.0	120.1	123.8
67.5°	125.2	121.5	112.0	98.0	80.3	66.3	56.0	50.8	51.6
70°	55.2	52.3	47.1	36.1	27.3	22.1	18.4	16.9	17.7
72.5°	20.6	19.9	16.9	14.0	11.8	9.6	8.8	8.8	8.8
75°	11.0	10.3	8.8	7.4	6.6	6.6	6.6	6.6	6.6
77.5°	8.1	7.4	6.6	5.9	5.2	4.4	4.4	4.4	4.4
80°	5.9	5.2	4.4	3.7	3.7	2.9	2.9	2.9	2.9
82.5°	3.7	3.7	2.9	2.2	2.2	1.5	1.5	1.5	1.5
85°	2.2	2.2	1.5	1.5	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)