

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: P247566

Luminaire Tested: **LD8B80D010 ER8B80927 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80927 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6547.5 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

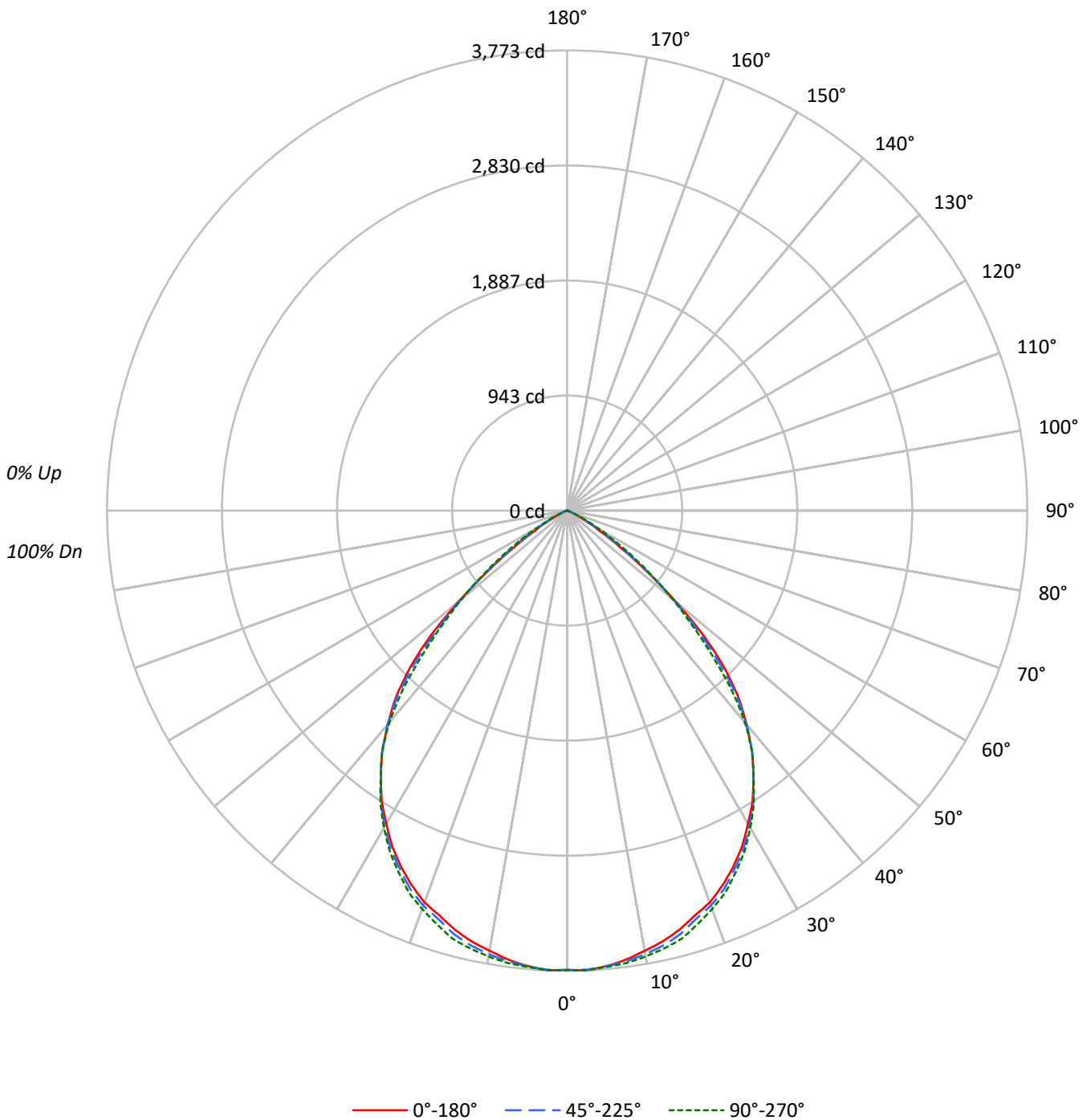
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
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°	356.3	5.4
10°-20°	1011.9	15.5
20°-30°	1492.2	22.8
30°-40°	1660.9	25.4
40°-50°	1336.7	20.4
50°-60°	568.4	8.7
60°-70°	106.6	1.6
70°-80°	12.9	0.2
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°	2860.4	43.7
0°-40°	4521.3	69.1
0°-60°	6426.4	98.2
0°-90°	6547.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6547.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3767	3767	3767	3767	3767	
5°	3748	3749	3749	3756	3755	355
15°	3558	3577	3594	3622	3633	1002
25°	3221	3233	3245	3264	3272	1480
35°	2661	2662	2664	2664	2664	1657
45°	1826	1811	1762	1709	1684	1373
55°	564	577	611	635	651	537
65°	70	78	88	95	106	91
75°	7	9	13	12	12	11
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3766.6	3766.6	3766.6	3766.6	3766.6
2.5°	3772.9	3775.3	3767.4	3769.0	3771.3
5°	3747.8	3748.6	3749.4	3755.7	3754.9
7.5°	3712.6	3718.0	3727.5	3739.2	3742.3
10°	3664.8	3678.9	3693.0	3707.1	3711.8
12.5°	3617.8	3626.4	3651.5	3665.6	3677.3
15°	3557.5	3577.0	3594.3	3621.7	3633.4
17.5°	3480.6	3494.8	3511.2	3538.7	3555.1
20°	3418.8	3422.7	3446.2	3470.5	3476.0
22.5°	3327.2	3335.7	3360.0	3376.5	3390.6
25°	3221.4	3233.1	3244.8	3263.7	3271.5
27.5°	3105.5	3112.5	3129.0	3142.2	3149.3
30°	2965.2	2980.9	2987.9	2994.2	3003.6
32.5°	2828.9	2833.6	2839.8	2843.8	2848.5
35°	2661.3	2662.0	2663.5	2664.3	2664.3
37.5°	2489.6	2495.1	2493.6	2489.0	2491.2
40°	2286.8	2296.1	2290.7	2276.5	2267.2
42.5°	2082.3	2077.6	2058.8	2016.4	1996.9
45°	1826.1	1811.2	1761.9	1708.6	1683.6
47.5°	1519.1	1486.1	1444.6	1403.1	1386.7
50°	1164.1	1159.4	1140.6	1124.2	1125.8
52.5°	834.3	846.1	850.0	865.7	873.4
55°	564.1	576.6	611.1	635.4	651.0
57.5°	343.1	367.4	404.2	444.2	464.5
60°	217.0	231.1	264.8	290.7	300.0
62.5°	135.6	136.4	152.8	173.1	181.8
65°	70.5	78.3	88.5	94.8	105.8
67.5°	43.9	43.9	43.1	52.5	58.7
70°	29.0	25.1	25.9	31.4	33.6
72.5°	10.2	17.2	15.6	15.6	10.9
75°	7.1	8.7	13.3	12.5	11.7
77.5°	9.5	8.7	6.3	5.5	10.9
80°	3.9	3.2	0.8	4.7	4.7
82.5°	3.9	1.6	4.7	6.3	3.9
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)