

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: P247666

Luminaire Tested: **LD8B80D010 ER8B80930 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80930 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6421.1 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

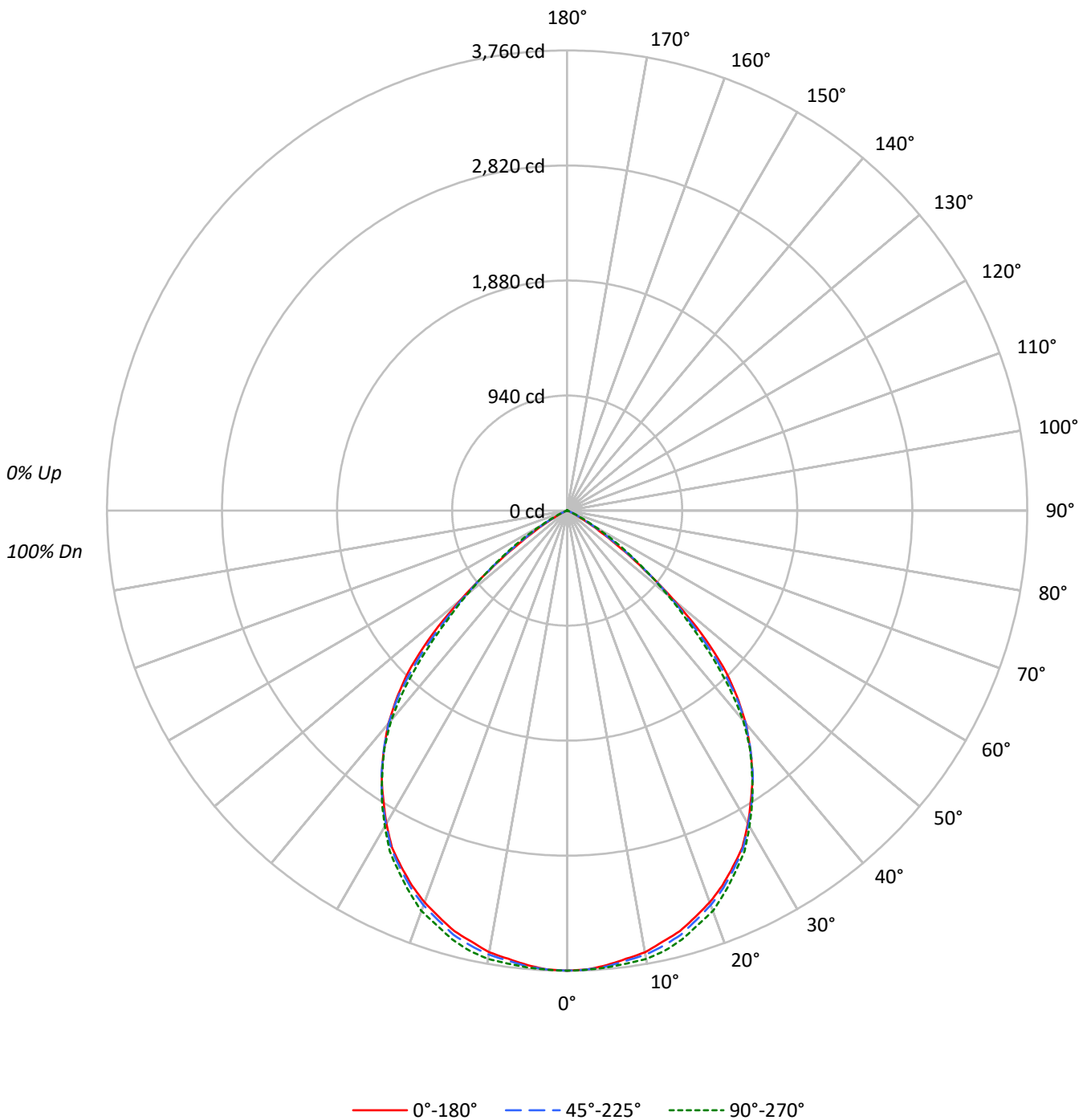
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	94	93	91						
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82						
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73						
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65						
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59						
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53						
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48						
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44						
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40						
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37						

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°	355.1	5.5
10°-20°	1010.4	15.7
20°-30°	1484.3	23.1
30°-40°	1643.3	25.6
40°-50°	1309.7	20.4
50°-60°	536.6	8.4
60°-70°	79.0	1.2
70°-80°	1.1	0.0
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°	2849.8	44.4
0°-40°	4493.1	70.0
0°-60°	6339.4	98.7
0°-90°	6421.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6421.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3760	3760	3760	3760	3760	
5°	3728	3735	3738	3744	3747	354
15°	3558	3561	3589	3623	3628	1001
25°	3209	3206	3226	3245	3255	1476
35°	2642	2638	2646	2642	2635	1642
45°	1802	1785	1728	1664	1649	1352
55°	530	548	576	609	610	510
65°	50	53	62	68	66	67
75°	0	0	0	0	0	2
85°	0	0	0	3	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3759.6	3759.6	3759.6	3759.6	3759.6
2.5°	3753.1	3753.9	3753.9	3749.7	3754.7
5°	3728.3	3734.8	3738.2	3744.0	3747.3
7.5°	3693.6	3691.9	3709.3	3729.9	3732.4
10°	3664.7	3661.4	3684.5	3711.7	3719.3
12.5°	3607.7	3611.9	3641.6	3669.7	3684.5
15°	3558.2	3560.6	3588.8	3622.6	3627.6
17.5°	3481.4	3488.8	3507.8	3543.4	3549.9
20°	3406.3	3409.5	3431.0	3460.0	3481.4
22.5°	3314.6	3320.4	3336.9	3362.4	3373.2
25°	3208.9	3205.6	3226.2	3245.2	3255.2
27.5°	3101.6	3095.8	3111.4	3129.6	3138.7
30°	2952.9	2951.3	2960.3	2971.9	2979.3
32.5°	2796.8	2800.9	2810.0	2813.4	2815.8
35°	2641.6	2638.3	2645.7	2642.4	2635.0
37.5°	2457.5	2459.9	2459.9	2456.7	2453.3
40°	2270.0	2272.5	2267.6	2249.4	2236.2
42.5°	2050.3	2052.0	2026.4	1986.0	1958.7
45°	1801.8	1785.3	1728.4	1663.9	1649.0
47.5°	1488.8	1460.8	1401.4	1352.6	1335.2
50°	1138.7	1118.1	1098.2	1072.7	1067.8
52.5°	798.5	809.2	816.6	824.9	822.5
55°	530.1	548.3	576.4	609.4	610.3
57.5°	318.7	339.4	374.9	411.2	428.6
60°	187.4	195.7	221.3	248.5	256.8
62.5°	101.6	104.0	115.6	142.8	138.8
65°	50.3	52.8	61.9	67.7	66.0
67.5°	24.8	27.2	28.9	37.1	30.6
70°	5.8	1.7	3.3	4.1	1.7
72.5°	0.0	0.0	1.7	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.7	0.0	0.0	0.0	3.3
80°	7.4	4.9	1.7	1.7	2.5
82.5°	2.5	0.8	2.5	0.8	0.0
85°	0.0	0.0	0.0	3.3	0.0
87.5°	4.1	0.8	0.8	2.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)