

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: P247474

Luminaire Tested: **LD8B80D010 ER8B809730 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B809730 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: 6874.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

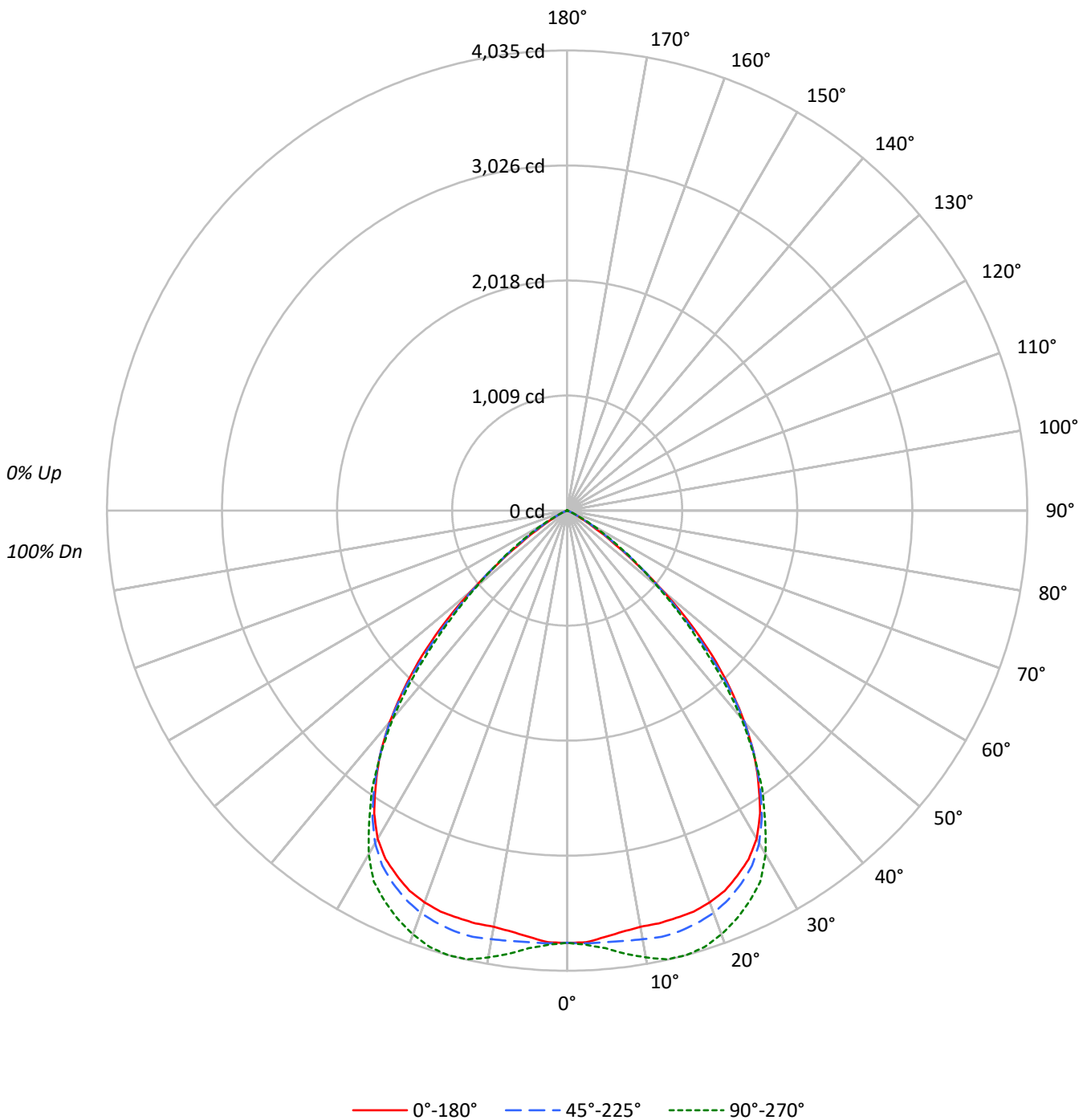
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	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	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	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°	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°	363.9	5.3
10°-20°	1084.6	15.8
20°-30°	1669.0	24.3
30°-40°	1828.0	26.6
40°-50°	1329.1	19.3
50°-60°	511.3	7.4
60°-70°	80.1	1.2
70°-80°	5.7	0.1
80°-90°	2.3	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°	3117.5	45.4
0°-40°	4945.4	71.9
0°-60°	6785.8	98.7
0°-90°	6874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3790	3790	3790	3790	3790	
5°	3754	3774	3800	3836	3852	357
15°	3698	3726	3819	3960	4035	1046
25°	3532	3553	3610	3717	3781	1624
35°	2926	2926	2945	2963	2982	1817
45°	1798	1780	1731	1687	1664	1367
55°	497	510	540	558	573	486
65°	56	58	60	68	70	69
75°	4	10	7	10	10	6
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3789.9	3789.9	3789.9	3789.9	3789.9
2.5°	3789.2	3795.0	3798.7	3806.8	3810.5
5°	3754.5	3773.7	3799.5	3835.6	3852.5
7.5°	3724.3	3750.9	3806.1	3884.2	3918.8
10°	3705.2	3733.9	3816.4	3922.5	3978.5
12.5°	3707.4	3739.1	3828.2	3955.6	4030.8
15°	3697.8	3726.5	3818.6	3960.1	4035.2
17.5°	3686.8	3710.3	3792.1	3930.6	4011.6
20°	3655.8	3675.7	3753.8	3879.0	3954.2
22.5°	3609.4	3627.8	3692.7	3809.0	3878.3
25°	3532.1	3553.4	3610.2	3717.0	3781.1
27.5°	3445.9	3458.4	3510.7	3607.9	3669.1
30°	3323.6	3328.0	3367.1	3442.2	3479.0
32.5°	3149.0	3148.3	3177.8	3215.3	3229.3
35°	2925.8	2925.8	2945.0	2963.4	2981.8
37.5°	2693.8	2690.9	2693.1	2697.5	2682.0
40°	2418.3	2412.4	2415.4	2388.8	2371.9
42.5°	2116.3	2121.5	2092.0	2044.8	2027.2
45°	1798.1	1779.7	1731.0	1686.9	1664.0
47.5°	1460.0	1431.2	1384.8	1339.2	1335.5
50°	1097.6	1099.0	1068.8	1043.0	1032.7
52.5°	761.7	769.8	785.2	788.2	791.9
55°	497.2	510.5	539.9	557.6	573.1
57.5°	304.2	328.5	353.6	386.7	389.7
60°	177.5	189.3	217.3	242.3	253.4
62.5°	100.2	111.2	117.1	131.9	135.5
65°	56.0	58.2	59.7	67.8	70.0
67.5°	33.9	35.4	36.8	36.1	37.6
70°	2.9	6.6	2.9	3.7	2.2
72.5°	12.5	8.1	8.8	6.6	4.4
75°	4.4	9.6	7.4	9.6	9.6
77.5°	2.9	2.2	3.7	4.4	3.7
80°	0.7	0.0	0.0	0.0	0.0
82.5°	6.6	5.9	3.7	5.9	2.2
85°	1.5	0.0	0.0	0.0	1.5
87.5°	4.4	2.2	2.2	5.2	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)