

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: P247378

Luminaire Tested: **LD8B80D010 ER8B80930 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80930 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7404.2 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

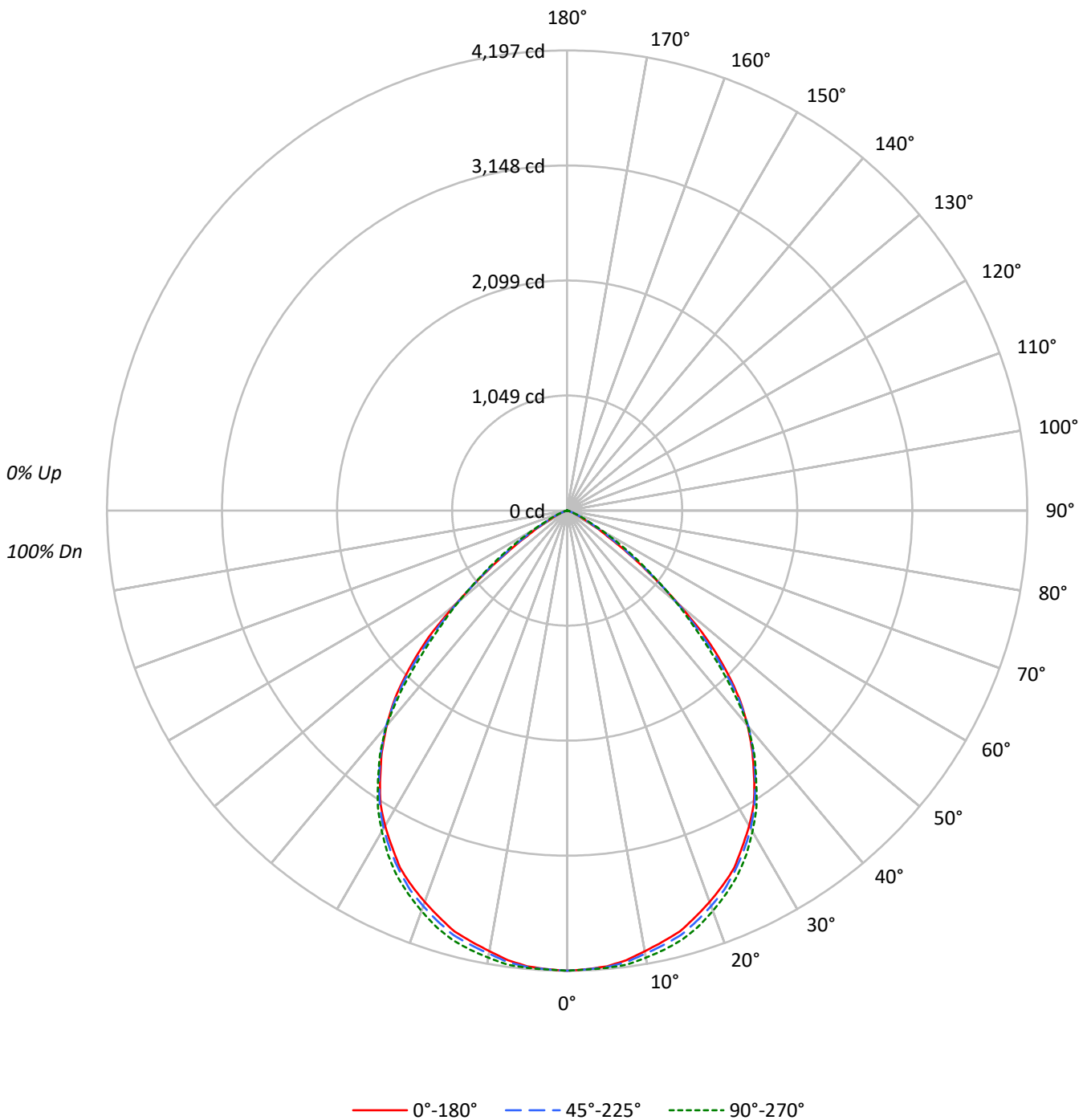
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	101	102	100	98	99	97	95	95	94	92	91						
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81						
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72						
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64						
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58						
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43						
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39						
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	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°	396.5	5.4
10°-20°	1128.4	15.2
20°-30°	1667.0	22.5
30°-40°	1862.8	25.2
40°-50°	1503.9	20.3
50°-60°	668.9	9.0
60°-70°	150.7	2.0
70°-80°	23.3	0.3
80°-90°	2.8	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°	3191.9	43.1
0°-40°	5054.7	68.3
0°-60°	7227.5	97.6
0°-90°	7404.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7404.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4197	4197	4197	4197	4197	
5°	4172	4171	4179	4179	4186	395
15°	3974	3976	4009	4038	4052	1118
25°	3600	3600	3624	3654	3674	1651
35°	2973	2971	2991	2994	3007	1853
45°	2037	2022	1984	1913	1904	1540
55°	677	687	718	755	777	637
65°	112	126	135	146	154	130
75°	15	21	22	21	25	19
85°	2	2	4	9	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4196.8	4196.8	4196.8	4196.8	4196.8
2.5°	4186.0	4183.6	4187.7	4185.3	4189.4
5°	4172.0	4171.2	4178.6	4179.4	4186.0
7.5°	4135.7	4136.5	4152.2	4163.7	4177.0
10°	4080.3	4083.7	4104.3	4129.9	4140.6
12.5°	4027.5	4031.7	4058.1	4093.6	4101.9
15°	3973.8	3976.3	4008.6	4038.3	4051.5
17.5°	3886.3	3902.9	3927.6	3961.5	3978.8
20°	3798.7	3810.3	3838.4	3875.5	3885.5
22.5°	3703.0	3715.3	3743.5	3774.0	3784.7
25°	3600.5	3600.5	3623.7	3653.5	3674.1
27.5°	3457.7	3475.1	3491.6	3518.0	3538.7
30°	3321.4	3328.0	3347.9	3369.4	3379.3
32.5°	3170.3	3171.2	3180.3	3204.2	3213.2
35°	2973.0	2971.3	2991.2	2994.4	3006.9
37.5°	2775.6	2783.9	2791.3	2802.8	2803.6
40°	2560.0	2564.2	2572.5	2560.0	2565.9
42.5°	2325.5	2319.7	2304.0	2266.9	2251.2
45°	2037.3	2021.6	1983.6	1913.4	1904.4
47.5°	1719.4	1680.5	1634.3	1582.3	1572.3
50°	1322.1	1325.5	1302.3	1285.0	1286.6
52.5°	963.7	975.3	981.1	997.6	1006.7
55°	677.2	687.1	717.7	754.8	777.1
57.5°	438.5	457.5	497.2	539.3	554.9
60°	279.9	292.4	327.9	358.4	379.0
62.5°	183.3	187.4	207.3	235.4	236.2
65°	111.5	125.6	134.6	146.2	154.5
67.5°	72.6	72.6	80.9	91.7	94.2
70°	42.1	42.9	47.1	51.2	53.7
72.5°	23.1	25.6	28.0	32.2	36.3
75°	14.9	20.6	21.5	20.6	24.8
77.5°	9.9	9.9	8.3	14.0	14.9
80°	8.3	5.8	7.4	10.8	11.5
82.5°	0.0	0.8	0.8	1.7	0.0
85°	1.7	2.5	4.1	9.1	2.5
87.5°	0.0	2.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)