

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: P247470

Luminaire Tested: **LD8B80D010 ER8B80927 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247470
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 ER8B80927 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7310.3 lumens
Efficiency: N/A
Efficacy: 98.3 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

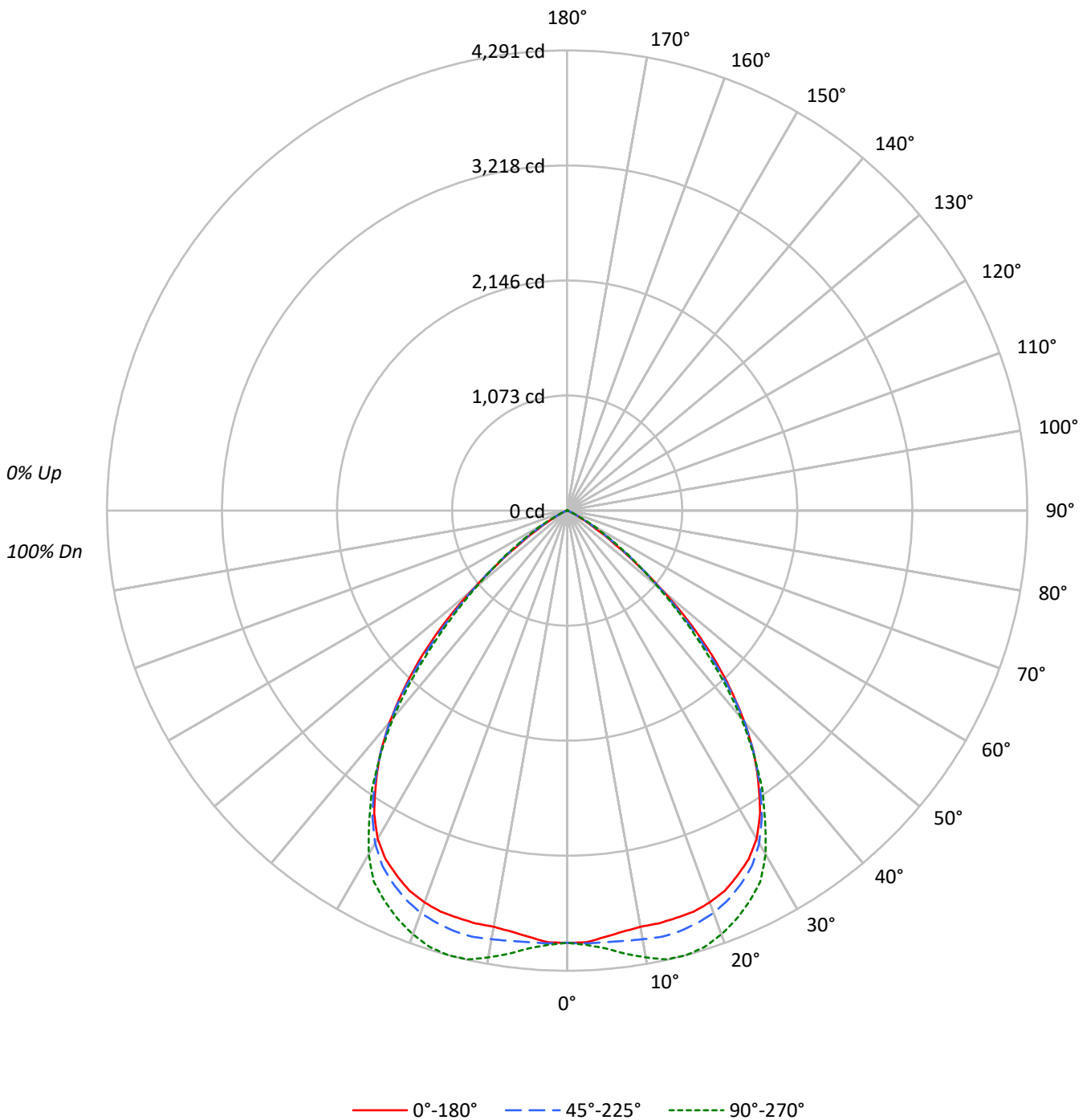
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	387.0	5.3
10°-20°	1153.4	15.8
20°-30°	1774.9	24.3
30°-40°	1944.0	26.6
40°-50°	1413.5	19.3
50°-60°	543.8	7.4
60°-70°	85.2	1.2
70°-80°	6.1	0.1
80°-90°	2.5	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°	3315.3	45.4
0°-40°	5259.3	71.9
0°-60°	7216.5	98.7
0°-90°	7310.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7310.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4030	4030	4030	4030	4030	
5°	3993	4013	4041	4079	4097	379
15°	3932	3963	4061	4211	4291	1113
25°	3756	3779	3839	3953	4021	1728
35°	3112	3112	3132	3152	3171	1932
45°	1912	1893	1841	1794	1770	1454
55°	529	543	574	593	609	517
65°	60	62	63	72	74	73
75°	5	10	8	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°	4030.4	4030.4	4030.4	4030.4	4030.4
2.5°	4029.6	4035.9	4039.8	4048.4	4052.4
5°	3992.8	4013.2	4040.6	4079.0	4097.0
7.5°	3960.7	3988.9	4047.6	4130.7	4167.4
10°	3940.3	3970.9	4058.7	4171.4	4230.9
12.5°	3942.7	3976.3	4071.2	4206.7	4286.6
15°	3932.4	3963.0	4060.9	4211.3	4291.3
17.5°	3920.7	3945.8	4032.8	4180.0	4266.2
20°	3887.9	3909.0	3992.1	4125.2	4205.1
22.5°	3838.5	3858.1	3927.0	4050.8	4124.4
25°	3756.3	3779.0	3839.3	3952.9	4021.0
27.5°	3664.6	3677.8	3733.5	3836.9	3902.0
30°	3534.5	3539.2	3580.8	3660.6	3699.8
32.5°	3348.9	3348.1	3379.4	3419.4	3434.3
35°	3111.5	3111.5	3131.9	3151.5	3171.0
37.5°	2864.8	2861.7	2864.0	2868.6	2852.2
40°	2571.8	2565.6	2568.6	2540.5	2522.5
42.5°	2250.6	2256.1	2224.8	2174.6	2155.8
45°	1912.2	1892.6	1841.0	1793.9	1769.6
47.5°	1552.6	1522.1	1472.7	1424.1	1420.2
50°	1167.2	1168.8	1136.7	1109.2	1098.2
52.5°	810.0	818.7	835.1	838.2	842.1
55°	528.8	542.9	574.2	593.0	609.4
57.5°	323.6	349.4	376.0	411.3	414.4
60°	188.8	201.4	231.1	257.7	269.4
62.5°	106.5	118.2	124.5	140.2	144.1
65°	59.5	61.9	63.4	72.1	74.5
67.5°	36.0	37.6	39.2	38.4	39.9
70°	3.2	7.1	3.2	3.9	2.4
72.5°	13.3	8.7	9.5	7.1	4.7
75°	4.7	10.2	7.9	10.2	10.2
77.5°	3.2	2.4	3.9	4.7	3.9
80°	0.8	0.0	0.0	0.0	0.0
82.5°	7.1	6.3	3.9	6.3	2.4
85°	1.6	0.0	0.0	0.0	1.6
87.5°	4.7	2.4	2.4	5.5	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)