

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: P247710

Luminaire Tested: **LD8B80D010 ER8B80927 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80927 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6780.4 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

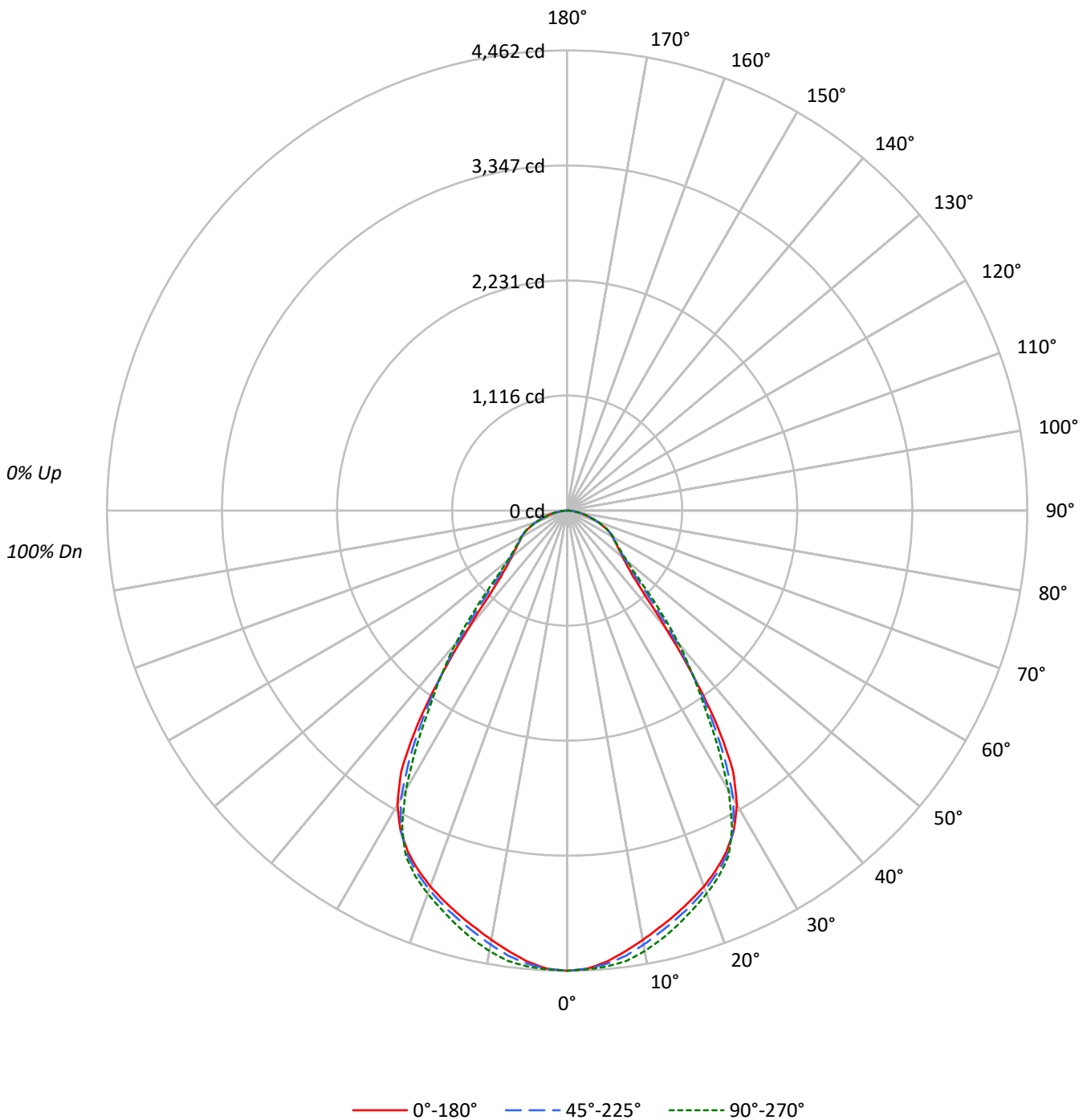
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89						
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78						
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70						
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63						
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57						
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43						
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	416.9	6.1
10°-20°	1156.8	17.1
20°-30°	1672.3	24.7
30°-40°	1496.6	22.1
40°-50°	809.9	11.9
50°-60°	539.8	8.0
60°-70°	413.4	6.1
70°-80°	219.1	3.2
80°-90°	55.4	0.8
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°	3246.1	47.9
0°-40°	4742.7	69.9
0°-60°	6092.4	89.9
0°-90°	6780.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6780.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4462	4462	4462	4462	4462	
5°	4391	4393	4412	4429	4437	414
15°	4055	4063	4098	4138	4157	1144
25°	3652	3661	3675	3692	3699	1671
35°	2526	2500	2413	2343	2320	1529
45°	909	935	994	1056	1079	748
55°	588	590	595	602	604	531
65°	418	420	423	426	426	410
75°	203	203	205	206	206	218
85°	47	47	47	48	47	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4462.0	4462.0	4462.0	4462.0	4462.0
2.5°	4447.1	4445.6	4446.3	4451.0	4453.3
5°	4390.7	4393.0	4411.8	4429.0	4436.9
7.5°	4311.6	4321.7	4353.9	4387.5	4404.8
10°	4227.0	4237.1	4274.0	4321.7	4336.7
12.5°	4140.0	4152.5	4185.4	4234.0	4252.0
15°	4055.4	4063.3	4098.5	4138.4	4157.2
17.5°	3968.4	3976.3	4008.4	4039.8	4054.6
20°	3877.5	3886.2	3910.5	3937.2	3953.6
22.5°	3773.4	3782.0	3802.4	3825.9	3840.8
25°	3652.0	3660.6	3674.7	3691.9	3699.0
27.5°	3498.4	3503.9	3490.6	3476.5	3464.0
30°	3290.1	3272.8	3219.5	3151.5	3124.8
32.5°	2994.0	2938.4	2835.7	2752.6	2722.2
35°	2526.3	2500.4	2412.7	2343.0	2320.3
37.5°	1981.1	1998.3	1992.0	1987.3	1992.0
40°	1477.4	1517.4	1603.5	1662.3	1681.1
42.5°	1118.6	1157.1	1254.1	1335.6	1363.8
45°	908.7	935.3	994.0	1055.9	1078.6
47.5°	784.1	799.0	828.8	861.6	872.7
50°	704.2	710.6	725.4	744.2	750.5
52.5°	640.8	643.9	652.5	662.7	664.3
55°	587.5	589.8	595.4	601.6	604.0
57.5°	542.8	545.2	546.8	550.7	552.3
60°	507.6	507.6	510.8	513.9	515.5
62.5°	469.2	469.2	472.4	475.5	475.5
65°	418.3	419.8	423.0	426.2	426.2
67.5°	362.7	363.5	365.8	369.0	368.2
70°	307.1	307.1	309.4	311.0	311.7
72.5°	253.8	253.0	257.0	257.7	255.4
75°	202.8	202.8	205.2	206.0	206.0
77.5°	158.3	157.5	157.5	158.3	159.1
80°	116.0	116.8	116.0	117.4	119.0
82.5°	80.7	79.9	79.9	79.9	79.1
85°	47.0	47.0	47.0	47.8	47.0
87.5°	18.8	18.8	18.0	18.0	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)