

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: P247711

Luminaire Tested: **LD8B90D010 ER8B909727 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247711
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: LD8B90D010 ER8B909727 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: 6788.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

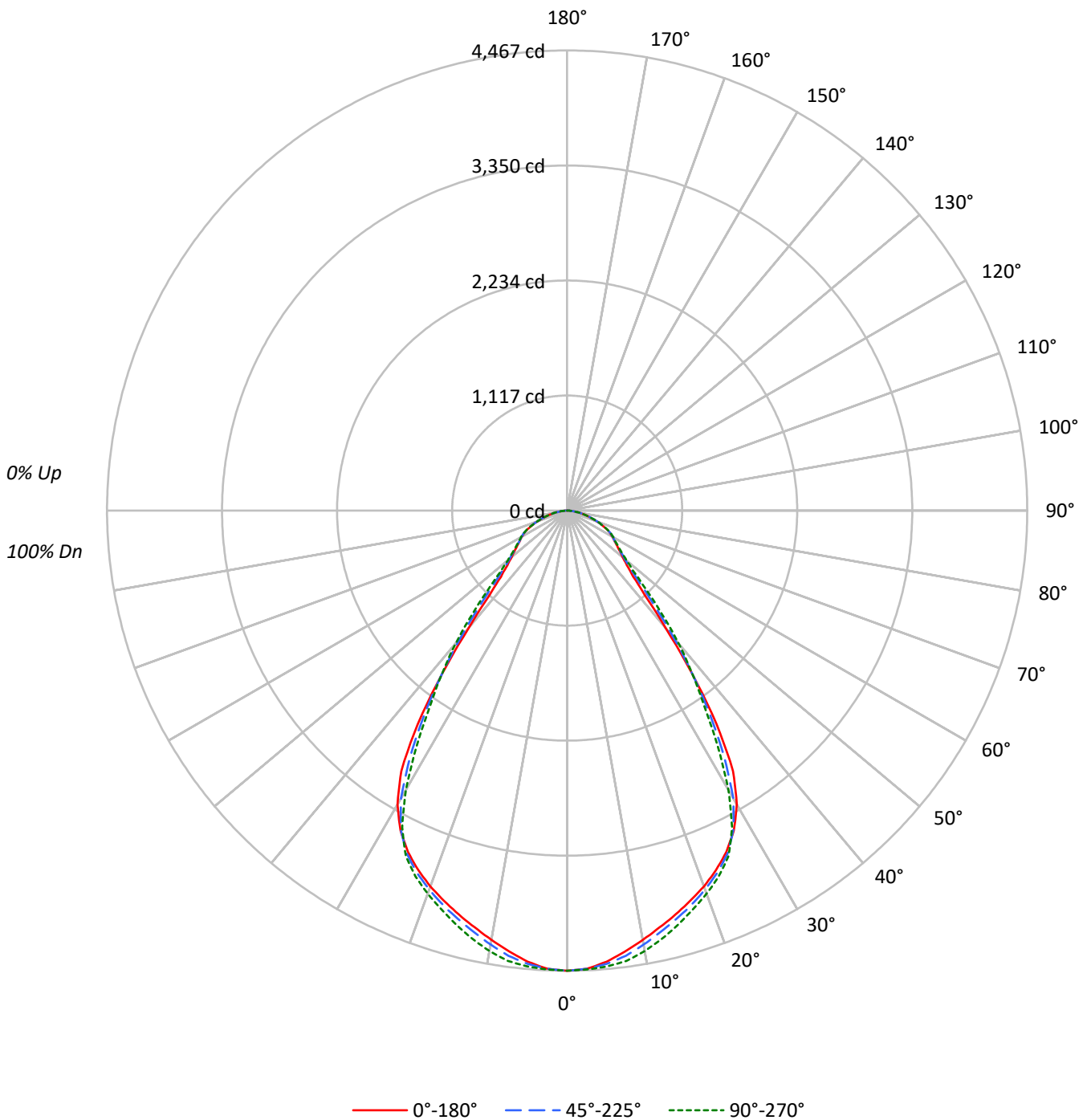
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
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°	417.4	6.1
10°-20°	1158.1	17.1
20°-30°	1674.2	24.7
30°-40°	1498.3	22.1
40°-50°	810.8	11.9
50°-60°	540.4	8.0
60°-70°	413.9	6.1
70°-80°	219.3	3.2
80°-90°	55.5	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°	3249.7	47.9
0°-40°	4748.0	69.9
0°-60°	6099.3	89.9
0°-90°	6788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4467	4467	4467	4467	4467	
5°	4396	4398	4417	4434	4442	414
15°	4060	4068	4103	4143	4162	1145
25°	3656	3665	3679	3696	3703	1673
35°	2529	2503	2415	2346	2323	1531
45°	910	936	995	1057	1080	749
55°	588	590	596	602	605	532
65°	419	420	424	427	427	411
75°	203	203	206	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°	4467.0	4467.0	4467.0	4467.0	4467.0
2.5°	4452.1	4450.5	4451.3	4456.0	4458.4
5°	4395.6	4398.0	4416.8	4434.0	4441.9
7.5°	4316.4	4326.6	4358.8	4392.5	4409.7
10°	4231.7	4241.9	4278.8	4326.6	4341.5
12.5°	4144.7	4157.2	4190.1	4238.8	4256.8
15°	4060.0	4067.8	4103.1	4143.1	4161.9
17.5°	3972.9	3980.8	4012.9	4044.3	4059.2
20°	3881.9	3890.6	3914.9	3941.5	3958.0
22.5°	3777.6	3786.3	3806.7	3830.2	3845.1
25°	3656.1	3664.7	3678.8	3696.1	3703.1
27.5°	3502.4	3507.9	3494.5	3480.4	3467.9
30°	3293.8	3276.5	3223.2	3155.0	3128.3
32.5°	2997.3	2941.7	2838.9	2755.8	2725.2
35°	2529.1	2503.3	2415.4	2345.6	2322.9
37.5°	1983.3	2000.6	1994.3	1989.6	1994.3
40°	1479.1	1519.1	1605.3	1664.1	1683.0
42.5°	1119.9	1158.3	1255.6	1337.1	1365.3
45°	909.7	936.4	995.2	1057.1	1079.9
47.5°	785.0	799.9	829.7	862.7	873.6
50°	705.0	711.3	726.2	745.0	751.3
52.5°	641.5	644.6	653.3	663.5	665.0
55°	588.2	590.5	596.0	602.3	604.6
57.5°	543.5	545.8	547.4	551.3	552.9
60°	508.2	508.2	511.3	514.5	516.0
62.5°	469.8	469.8	472.9	476.0	476.0
65°	418.8	420.3	423.5	426.6	426.6
67.5°	363.1	363.9	366.2	369.4	368.6
70°	307.4	307.4	309.8	311.3	312.1
72.5°	254.1	253.3	257.2	258.0	255.7
75°	203.1	203.1	205.5	206.3	206.3
77.5°	158.4	157.6	157.6	158.4	159.2
80°	116.1	116.9	116.1	117.6	119.2
82.5°	80.8	80.0	80.0	80.0	79.2
85°	47.1	47.1	47.1	47.8	47.1
87.5°	18.8	18.8	18.0	18.0	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)