

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: P247379

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247379
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: LSR8B90D010 EC8B90930 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8339.1 lumens
Efficiency: N/A
Efficacy: 96.9 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

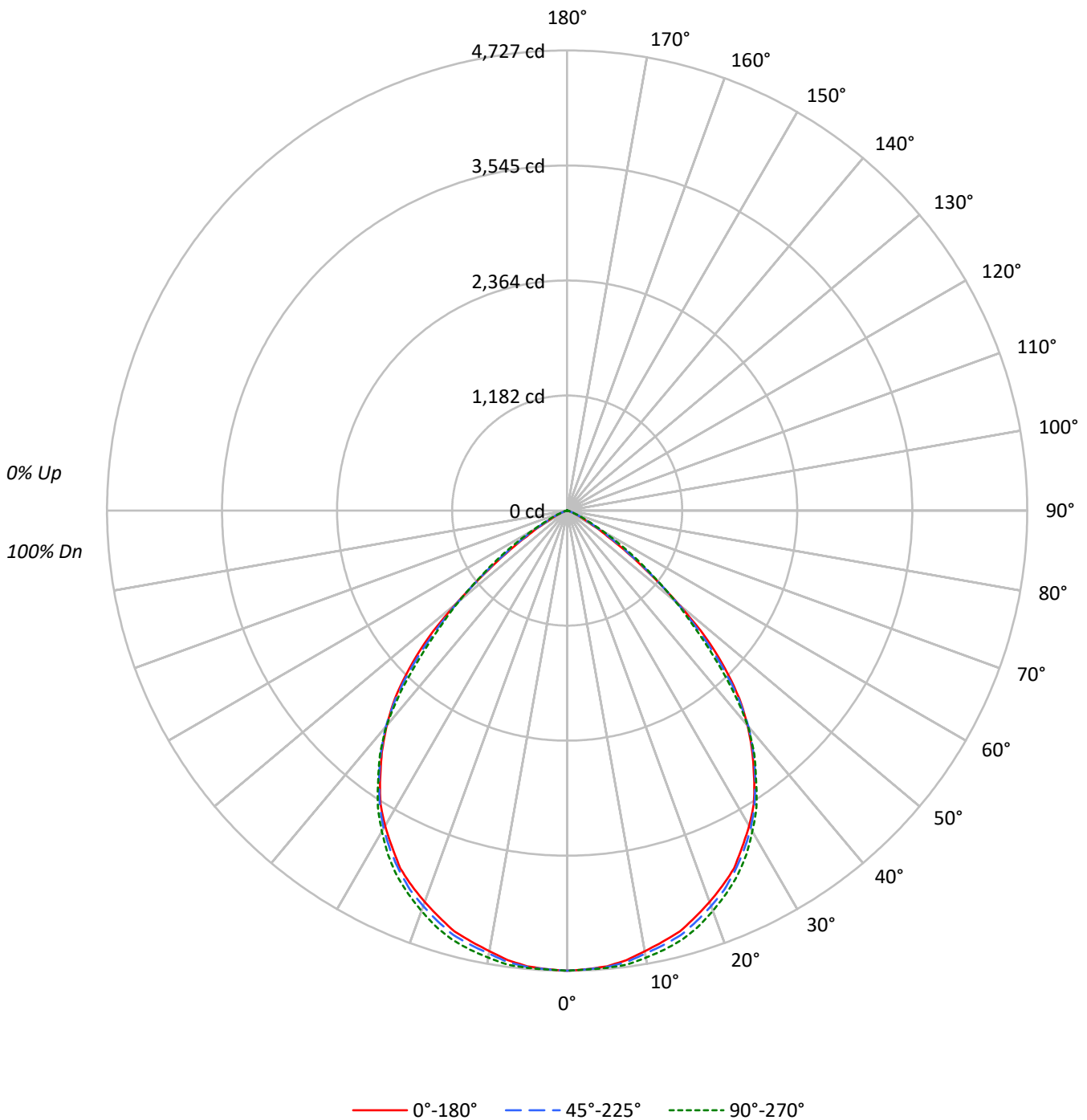
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	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	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°	446.6	5.4
10°-20°	1270.9	15.2
20°-30°	1877.5	22.5
30°-40°	2098.0	25.2
40°-50°	1693.7	20.3
50°-60°	753.4	9.0
60°-70°	169.7	2.0
70°-80°	26.2	0.3
80°-90°	3.1	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°	3595.0	43.1
0°-40°	5693.0	68.3
0°-60°	8140.1	97.6
0°-90°	8339.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8339.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4727	4727	4727	4727	4727	
5°	4699	4698	4706	4707	4715	445
15°	4476	4478	4515	4548	4563	1259
25°	4055	4055	4081	4115	4138	1859
35°	3348	3346	3369	3372	3386	2087
45°	2295	2277	2234	2155	2145	1735
55°	763	774	808	850	875	718
65°	126	141	152	165	174	146
75°	17	23	24	23	28	22
85°	2	3	5	10	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4726.7	4726.7	4726.7	4726.7	4726.7
2.5°	4714.7	4711.9	4716.5	4713.7	4718.4
5°	4698.8	4697.9	4706.3	4707.2	4714.7
7.5°	4657.9	4658.9	4676.5	4689.5	4704.4
10°	4595.7	4599.4	4622.6	4651.4	4663.5
12.5°	4536.0	4540.7	4570.4	4610.4	4619.8
15°	4475.6	4478.4	4514.7	4548.1	4563.0
17.5°	4377.1	4395.7	4423.6	4461.7	4481.2
20°	4278.4	4291.4	4323.0	4364.9	4376.0
22.5°	4170.6	4184.5	4216.1	4250.5	4262.6
25°	4055.2	4055.2	4081.2	4114.7	4137.9
27.5°	3894.4	3913.9	3932.5	3962.2	3985.5
30°	3740.9	3748.3	3770.6	3794.8	3805.9
32.5°	3570.6	3571.5	3581.8	3608.7	3619.0
35°	3348.3	3346.5	3368.8	3372.5	3386.4
37.5°	3126.0	3135.3	3143.7	3156.7	3157.6
40°	2883.3	2887.9	2897.2	2883.3	2889.8
42.5°	2619.1	2612.6	2595.0	2553.1	2535.5
45°	2294.6	2276.9	2234.0	2155.0	2144.8
47.5°	1936.4	1892.7	1840.7	1782.1	1770.8
50°	1489.1	1492.8	1466.7	1447.2	1449.1
52.5°	1085.5	1098.5	1105.0	1123.6	1133.8
55°	762.7	773.8	808.2	850.1	875.2
57.5°	493.9	515.3	559.9	607.4	625.1
60°	315.3	329.2	369.3	403.7	426.9
62.5°	206.5	211.1	233.5	265.1	266.0
65°	125.6	141.4	151.6	164.7	174.0
67.5°	81.8	81.8	91.1	103.2	106.0
70°	47.4	48.3	53.0	57.6	60.4
72.5°	26.0	28.8	31.6	36.3	40.9
75°	16.7	23.2	24.2	23.2	27.9
77.5°	11.2	11.2	9.3	15.8	16.7
80°	9.3	6.5	8.4	12.1	13.0
82.5°	0.0	0.9	0.9	1.9	0.0
85°	1.9	2.8	4.6	10.2	2.8
87.5°	0.0	2.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)