

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: P247243

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90830 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8935.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

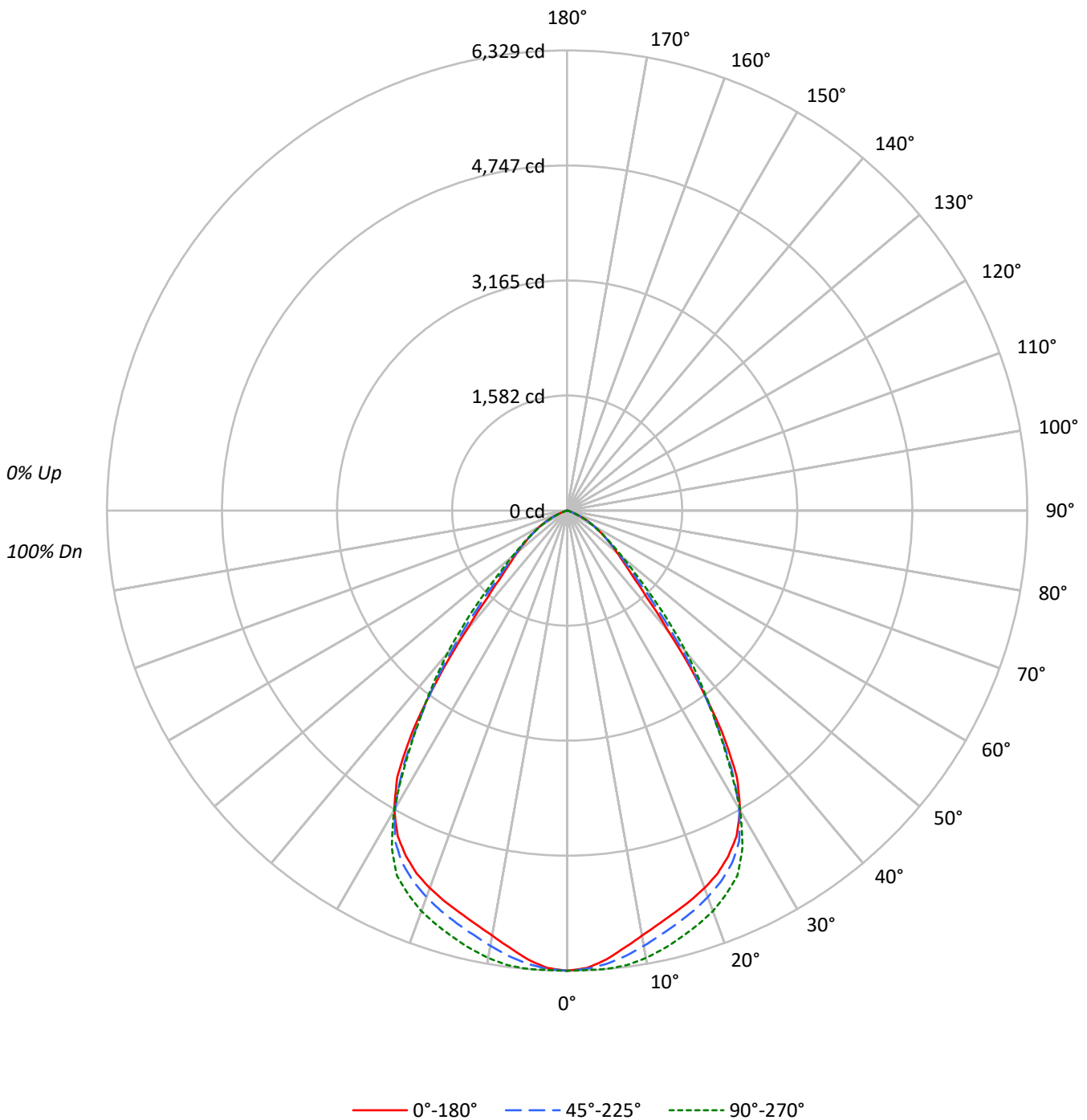
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	195175	195175	195175
5°	191829	193674	195819
10°	185840	190352	195641
15°	182698	187538	193933
20°	181259	185630	192347
25°	178392	182332	188449
30°	169256	168562	169645
35°	139517	134586	134258
40°	87411	95217	103106
45°	55401	61589	69334
50°	42657	44317	47435
55°	33773	33655	34875
60°	26316	25785	25650
65°	17701	16994	16519
70°	8105	7420	7032
75°	3872	3479	3229
80°	1918	1723	1723
85°	1132	1132	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.9	6.6
10°-20°	1662.1	18.6
20°-30°	2447.9	27.4
30°-40°	2226.5	24.9
40°-50°	1152.6	12.9
50°-60°	577.4	6.5
60°-70°	235.2	2.6
70°-80°	37.5	0.4
80°-90°	4.0	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°	4701.9	52.6
0°-40°	6928.3	77.5
0°-60°	8658.3	96.9
0°-90°	8935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6329	6329	6329	6329	6329	
5°	6197	6214	6257	6304	6326	583
15°	5723	5762	5874	6010	6075	1617
25°	5243	5279	5359	5481	5539	2400
35°	3706	3682	3575	3545	3566	2235
45°	1270	1315	1412	1522	1590	1046
55°	628	626	626	638	649	571
65°	243	242	233	230	226	245
75°	32	31	29	27	27	41
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6329.4	6329.4	6329.4	6329.4	6329.4
2.5°	6295.8	6299.0	6307.7	6317.5	6325.0
5°	6197.2	6213.5	6256.8	6304.5	6326.1
7.5°	6062.9	6098.7	6177.7	6266.5	6305.5
10°	5935.1	5976.3	6079.2	6198.3	6248.1
12.5°	5822.5	5862.6	5974.1	6107.3	6169.1
15°	5722.9	5761.8	5874.5	6009.9	6074.8
17.5°	5628.6	5664.4	5771.6	5907.0	5973.0
20°	5523.6	5555.0	5656.8	5787.8	5861.5
22.5°	5404.4	5428.3	5523.6	5648.1	5713.1
25°	5243.1	5278.8	5358.9	5481.3	5538.7
27.5°	5045.9	5068.7	5123.9	5198.7	5222.5
30°	4753.5	4752.4	4734.0	4734.0	4764.4
32.5°	4347.4	4295.4	4207.7	4154.6	4150.3
35°	3706.2	3682.4	3575.2	3544.8	3566.5
37.5°	2924.2	2940.5	2967.6	3010.9	3049.9
40°	2171.5	2212.7	2365.4	2501.9	2561.4
42.5°	1620.2	1673.3	1829.3	1978.7	2051.3
45°	1270.4	1314.8	1412.3	1521.7	1589.9
47.5°	1050.6	1073.3	1125.3	1198.9	1233.6
50°	889.2	900.0	923.8	961.8	988.8
52.5°	754.9	750.6	763.6	788.5	798.2
55°	628.2	626.0	626.0	637.9	648.7
57.5°	520.9	517.7	511.2	516.6	519.9
60°	426.7	423.5	418.1	417.0	415.9
62.5°	343.3	337.9	327.1	324.9	324.9
65°	242.6	241.5	232.9	229.6	226.4
67.5°	150.5	146.2	138.6	132.1	131.0
70°	89.9	88.8	82.3	78.0	78.0
72.5°	54.2	52.0	48.7	46.6	45.5
75°	32.5	31.4	29.2	27.1	27.1
77.5°	19.5	18.4	17.3	16.2	16.2
80°	10.8	10.8	9.7	9.7	9.7
82.5°	6.5	6.5	5.4	5.4	5.4
85°	3.2	3.2	3.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)