

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: P247141

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120930 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11437.6 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

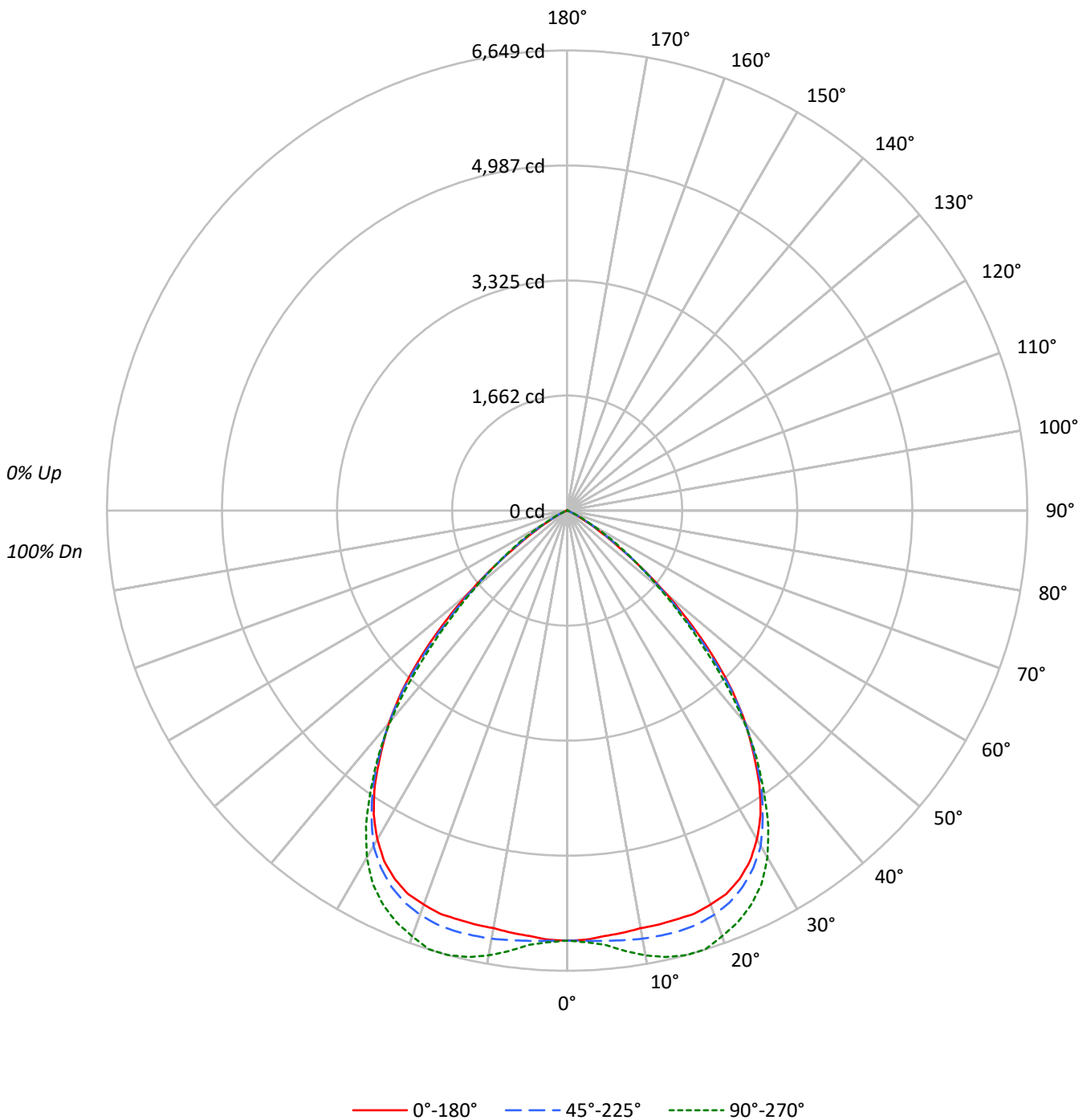
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247141

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBS0LI

Luminous Intensity Polar Plot





TEST NUMBER: P247141

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBSOLI

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	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	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°			



TEST NUMBER: P247141

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBSOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.8	5.2
10°-20°	1789.9	15.6
20°-30°	2769.6	24.2
30°-40°	3033.6	26.5
40°-50°	2219.4	19.4
50°-60°	870.8	7.6
60°-70°	141.0	1.2
70°-80°	13.0	0.1
80°-90°	2.6	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°	5157.3	45.1
0°-40°	8190.9	71.6
0°-60°	11281.0	98.6
0°-90°	11437.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11437.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6213	6213	6213	6213	6213	
5°	6173	6187	6241	6286	6299	588
15°	6113	6153	6289	6523	6649	1731
25°	5881	5899	6000	6181	6287	2696
35°	4844	4853	4894	4940	4952	3000
45°	2990	2985	2905	2816	2777	2277
55°	858	876	912	945	977	844
65°	102	100	108	119	128	124
75°	7	11	13	10	12	13
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P247141

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBSOLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6212.8	6212.8	6212.8	6212.8	6212.8
2.5°	6206.6	6210.3	6222.4	6234.7	6242.0
5°	6172.6	6187.2	6240.7	6285.8	6299.1
7.5°	6151.9	6176.3	6260.2	6373.3	6417.2
10°	6126.4	6161.7	6280.9	6441.5	6526.6
12.5°	6127.6	6161.7	6288.1	6497.4	6606.9
15°	6113.0	6153.2	6289.4	6523.0	6649.4
17.5°	6109.3	6128.8	6267.5	6504.7	6644.6
20°	6057.1	6083.8	6213.9	6424.5	6544.8
22.5°	5999.8	6012.0	6131.3	6338.0	6440.3
25°	5880.7	5898.9	5999.8	6181.1	6287.0
27.5°	5716.4	5720.1	5822.2	5990.2	6082.5
30°	5486.5	5504.8	5596.0	5720.1	5785.8
32.5°	5201.9	5199.4	5259.1	5367.2	5409.8
35°	4844.2	4852.7	4894.1	4940.2	4952.5
37.5°	4424.5	4435.5	4463.4	4479.2	4490.2
40°	4006.0	4006.0	4002.3	3985.3	3971.9
42.5°	3529.1	3513.3	3495.1	3419.6	3386.8
45°	2990.2	2985.3	2905.1	2816.3	2777.3
47.5°	2423.3	2396.6	2312.6	2240.9	2225.0
50°	1867.4	1839.3	1795.6	1760.3	1737.2
52.5°	1330.9	1310.2	1328.4	1328.4	1326.0
55°	857.7	875.9	912.4	945.2	976.8
57.5°	543.8	568.1	624.1	666.7	677.6
60°	311.4	329.7	368.6	406.4	413.6
62.5°	195.8	197.1	222.6	244.5	257.9
65°	102.2	99.8	108.3	119.3	127.7
67.5°	42.6	42.6	51.1	49.9	63.2
70°	21.9	18.3	20.6	24.3	28.0
72.5°	15.8	12.2	17.0	21.9	9.8
75°	7.3	11.0	13.3	9.8	12.2
77.5°	9.8	9.8	7.3	12.2	2.5
80°	7.3	4.8	8.5	3.7	0.0
82.5°	1.2	2.5	1.2	1.2	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	3.7	6.1	4.8	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)