

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: P247105

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247105
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 EC8B120835 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13850.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

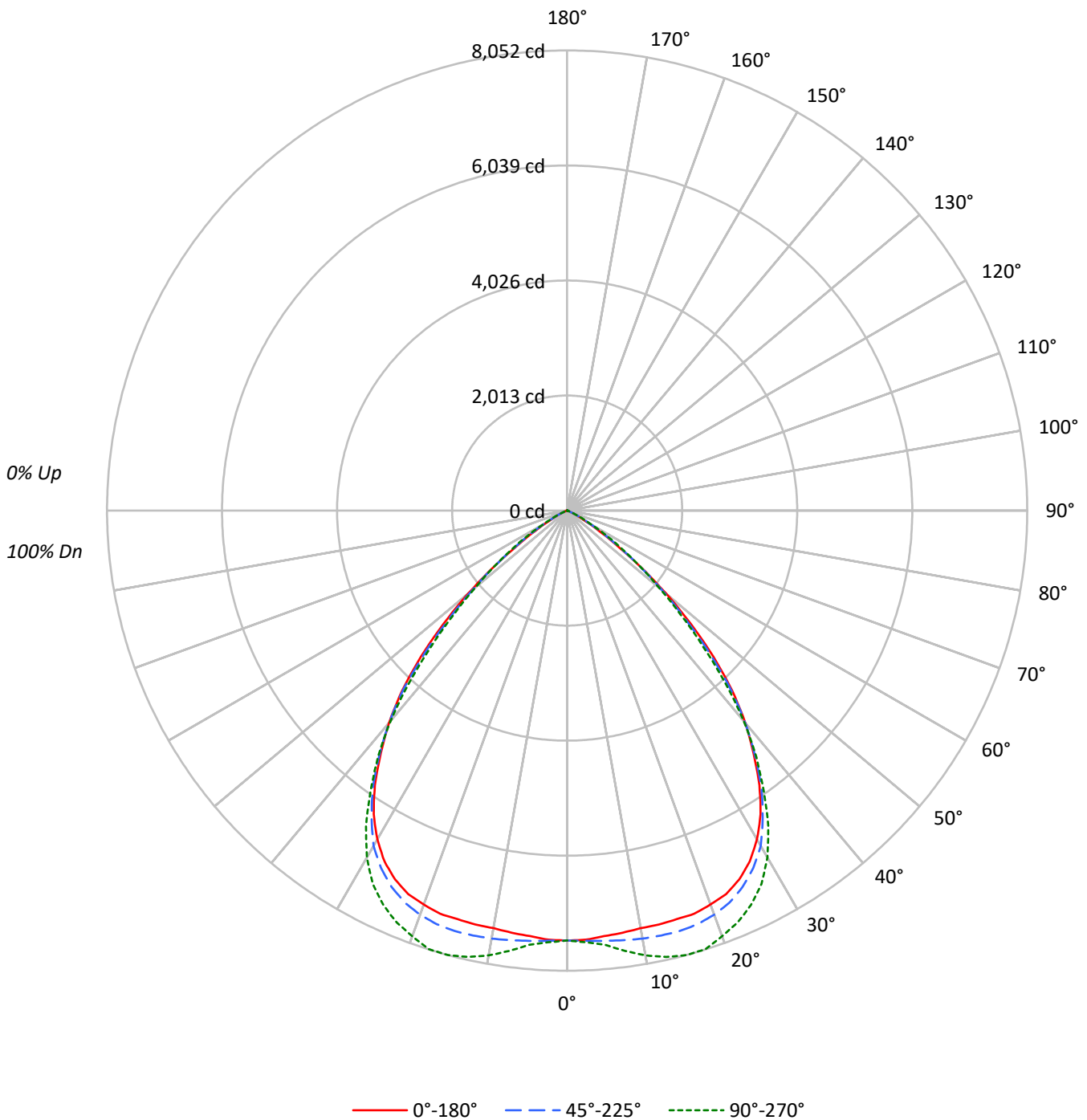
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	231988	231988	231988
5°	231370	233923	236112
10°	232291	238150	247465
15°	236315	243134	257053
20°	240687	246922	260071
25°	242286	247199	259026
30°	236560	241282	249464
35°	220817	223091	225752
40°	195268	195091	193609
45°	157904	153408	146662
50°	108476	104307	100916
55°	55831	59396	63594
60°	23257	27531	30892
65°	9026	9566	11288
70°	2389	2254	3056
75°	1048	1930	1751
80°	1563	1829	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.9	5.2
10°-20°	2167.4	15.6
20°-30°	3353.8	24.2
30°-40°	3673.4	26.5
40°-50°	2687.4	19.4
50°-60°	1054.4	7.6
60°-70°	170.7	1.2
70°-80°	15.7	0.1
80°-90°	3.2	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°	6245.1	45.1
0°-40°	9918.5	71.6
0°-60°	13660.4	98.6
0°-90°	13850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7523	7523	7523	7523	7523	
5°	7475	7492	7557	7612	7628	712
15°	7402	7451	7616	7899	8052	2096
25°	7121	7143	7265	7485	7613	3265
35°	5866	5876	5926	5982	5997	3632
45°	3621	3615	3518	3410	3363	2757
55°	1038	1061	1105	1145	1183	1022
65°	124	121	131	144	155	150
75°	9	13	16	12	15	15
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7523.2	7523.2	7523.2	7523.2	7523.2
2.5°	7515.8	7520.2	7535.0	7549.7	7558.5
5°	7474.6	7492.2	7557.1	7611.6	7627.8
7.5°	7449.5	7479.0	7580.6	7717.6	7770.7
10°	7418.6	7461.3	7605.7	7800.1	7903.2
12.5°	7420.1	7461.3	7614.5	7867.9	8000.5
15°	7402.4	7451.0	7616.0	7898.8	8052.0
17.5°	7398.0	7421.5	7589.5	7876.7	8046.1
20°	7334.6	7367.0	7524.6	7779.5	7925.3
22.5°	7265.4	7280.1	7424.5	7674.9	7798.6
25°	7121.0	7143.1	7265.4	7484.9	7613.0
27.5°	6922.1	6926.6	7050.3	7253.6	7365.5
30°	6643.7	6665.8	6776.3	6926.6	7006.1
32.5°	6299.0	6296.1	6368.3	6499.4	6550.9
35°	5865.9	5876.2	5926.3	5982.3	5997.0
37.5°	5357.7	5371.0	5404.8	5424.0	5437.2
40°	4850.9	4850.9	4846.5	4825.9	4809.7
42.5°	4273.5	4254.3	4232.2	4140.9	4101.1
45°	3620.9	3615.0	3517.8	3410.2	3363.1
47.5°	2934.4	2902.0	2800.4	2713.5	2694.3
50°	2261.2	2227.3	2174.3	2131.6	2103.6
52.5°	1611.6	1586.5	1608.6	1608.6	1605.7
55°	1038.5	1060.6	1104.8	1144.6	1182.9
57.5°	658.5	687.9	755.7	807.3	820.5
60°	377.1	399.2	446.4	492.0	500.9
62.5°	237.2	238.6	269.6	296.1	312.3
65°	123.7	120.8	131.1	144.4	154.7
67.5°	51.6	51.6	61.9	60.4	76.6
70°	26.5	22.1	25.0	29.5	33.9
72.5°	19.2	14.7	20.6	26.5	11.8
75°	8.8	13.3	16.2	11.8	14.7
77.5°	11.8	11.8	8.8	14.7	2.9
80°	8.8	5.9	10.3	4.4	0.0
82.5°	1.5	2.9	1.5	1.5	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	4.4	7.4	5.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)