

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: P247641

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120850 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11603.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

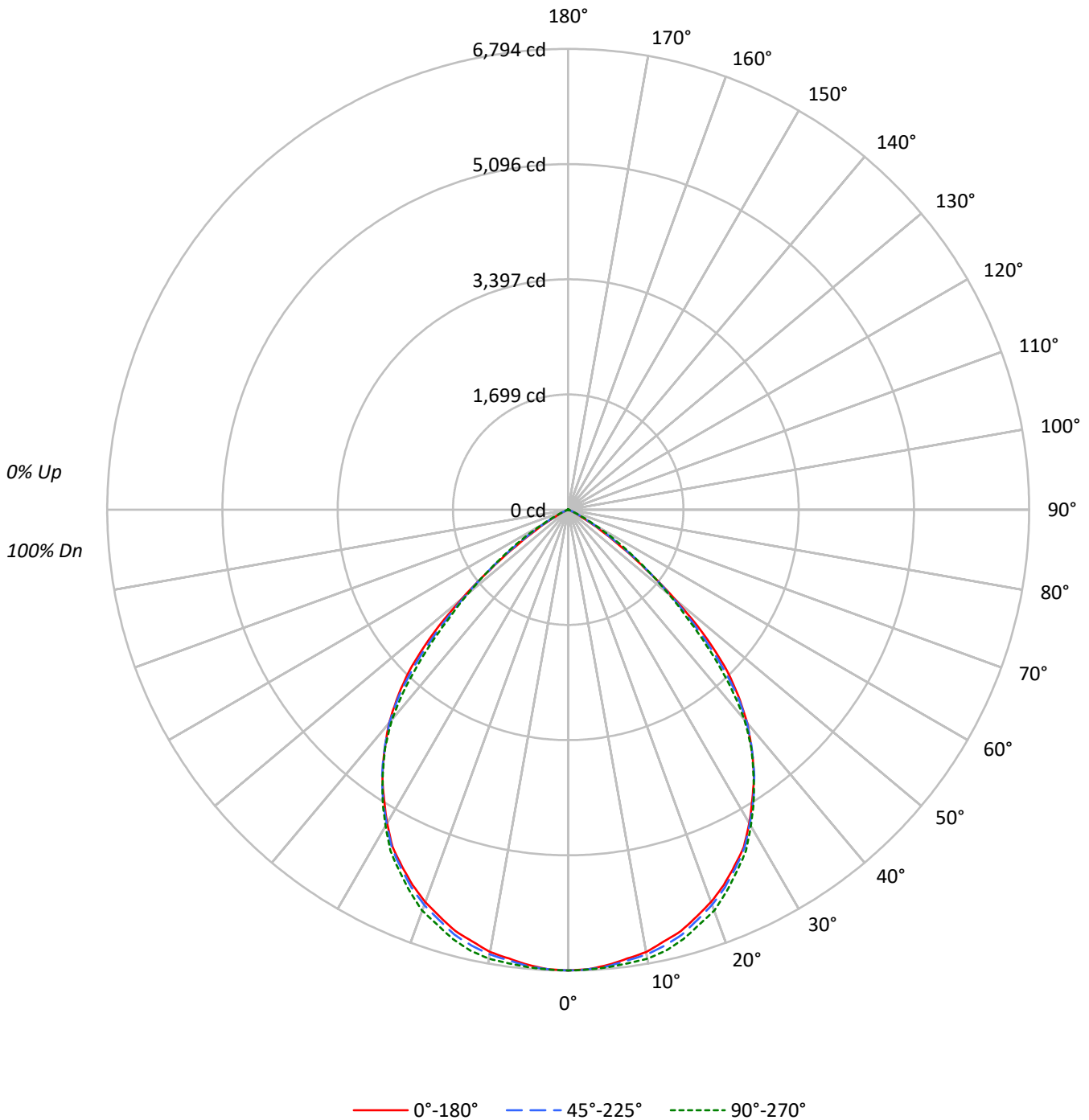
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	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°	209496	209496	209496
5°	208541	209095	209603
10°	207354	208475	210439
15°	205262	207025	209262
20°	201982	203452	206438
25°	197289	198354	200133
30°	189994	190475	191696
35°	179691	179973	179243
40°	165118	164937	162654
45°	141987	136196	129946
50°	98714	95207	92559
55°	51503	55993	59283
60°	20889	24663	28622
65°	6640	8165	8712
70°	938	541	270
75°	0	0	0
80°	2380	533	799
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.6	5.5
10°-20°	1825.8	15.7
20°-30°	2682.2	23.1
30°-40°	2969.5	25.6
40°-50°	2366.5	20.4
50°-60°	969.7	8.4
60°-70°	142.8	1.2
70°-80°	2.1	0.0
80°-90°	2.9	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°	5149.5	44.4
0°-40°	8119.1	70.0
0°-60°	11455.3	98.7
0°-90°	11603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6794	6794	6794	6794	6794	
5°	6737	6749	6755	6765	6771	639
15°	6430	6434	6485	6546	6555	1810
25°	5798	5792	5830	5864	5882	2667
35°	4773	4767	4781	4775	4762	2967
45°	3256	3226	3123	3007	2980	2443
55°	958	991	1042	1101	1103	922
65°	91	96	112	122	119	121
75°	0	0	0	0	0	4
85°	0	0	0	6	0	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6793.8	6793.8	6793.8	6793.8	6793.8
2.5°	6781.8	6783.3	6783.3	6775.9	6784.8
5°	6737.1	6749.0	6755.0	6765.4	6771.4
7.5°	6674.4	6671.4	6702.7	6740.0	6744.5
10°	6622.2	6616.2	6658.0	6707.2	6720.7
12.5°	6519.2	6526.7	6580.4	6631.1	6658.0
15°	6429.7	6434.2	6484.9	6546.1	6555.0
17.5°	6290.9	6304.3	6338.7	6402.8	6414.8
20°	6155.1	6161.1	6199.9	6252.1	6290.9
22.5°	5989.5	5999.9	6029.8	6076.0	6095.4
25°	5798.5	5792.5	5829.8	5864.2	5882.1
27.5°	5604.5	5594.1	5622.4	5655.3	5671.7
30°	5335.9	5332.9	5349.4	5370.3	5383.7
32.5°	5053.9	5061.4	5077.8	5083.8	5088.2
35°	4773.4	4767.4	4780.9	4774.9	4761.5
37.5°	4440.6	4445.1	4445.1	4439.2	4433.2
40°	4101.9	4106.4	4097.4	4064.6	4040.7
42.5°	3705.0	3708.0	3661.7	3588.6	3539.4
45°	3255.9	3226.0	3123.1	3006.7	2979.8
47.5°	2690.3	2639.6	2532.2	2444.1	2412.8
50°	2057.7	2020.4	1984.6	1938.3	1929.4
52.5°	1442.9	1462.3	1475.7	1490.7	1486.2
55°	958.0	990.8	1041.5	1101.2	1102.7
57.5°	576.0	613.3	677.4	743.1	774.4
60°	338.7	353.6	399.9	449.1	464.1
62.5°	183.5	188.0	208.9	258.1	250.7
65°	91.0	95.5	111.9	122.4	119.4
67.5°	44.8	49.2	52.2	67.1	55.2
70°	10.4	3.0	6.0	7.5	3.0
72.5°	0.0	0.0	3.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	3.0	0.0	0.0	0.0	6.0
80°	13.4	9.0	3.0	3.0	4.5
82.5°	4.5	1.5	4.5	1.5	0.0
85°	0.0	0.0	0.0	6.0	0.0
87.5°	7.5	1.5	1.5	4.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)