

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: P247425

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120927 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10040.6 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

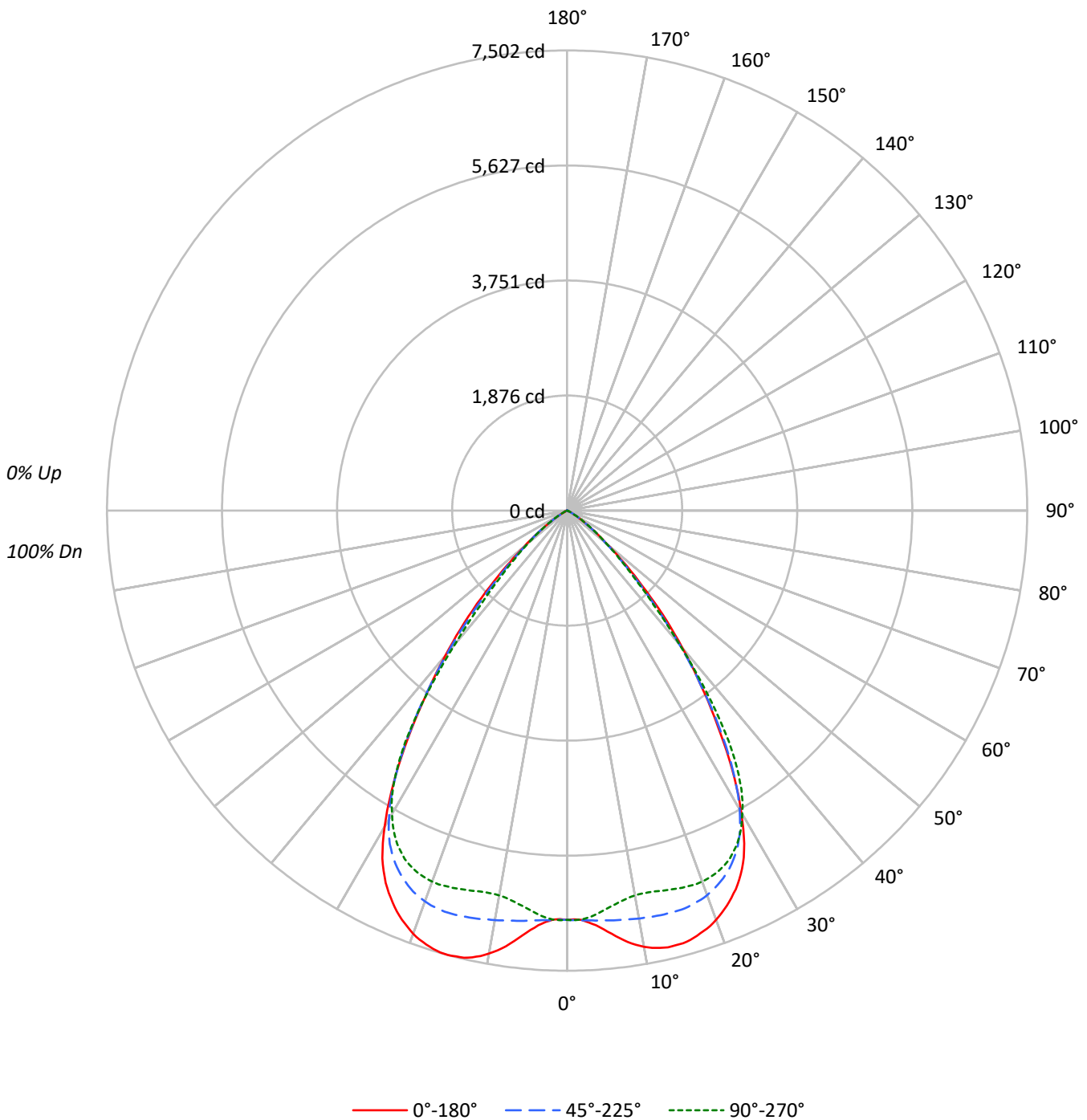
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	643.3	6.4
10°-20°	1935.5	19.3
20°-30°	2945.9	29.3
30°-40°	2741.5	27.3
40°-50°	1334.3	13.3
50°-60°	380.2	3.8
60°-70°	49.7	0.5
70°-80°	7.9	0.1
80°-90°	2.4	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°	5524.7	55.0
0°-40°	8266.2	82.3
0°-60°	9980.7	99.4
0°-90°	10040.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10040.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6674	6674	6674	6674	6674	
5°	6853	6702	6555	6708	6864	667
15°	7301	6770	6402	6836	7502	2054
25°	6640	6351	6266	6490	6878	3014
35°	4278	4338	4599	4550	4516	2660
45°	1724	1596	1537	1721	1874	1363
55°	388	388	403	394	388	381
65°	26	31	34	31	28	49
75°	0	3	8	3	0	5
85°	0	3	3	6	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6674.0	6674.0	6674.0	6674.0	6674.0	6674.0	6674.0	6674.0	6674.0
1°	6665.5	6674.0	6679.7	6676.9	6679.7	6676.9	6671.2	6659.9	6659.9
2°	6676.9	6688.2	6685.3	6679.7	6671.2	6671.2	6688.2	6665.5	6671.2
3°	6722.2	6722.2	6688.2	6657.1	6645.6	6657.1	6685.3	6702.4	6716.6
4°	6778.9	6767.6	6699.6	6628.7	6606.0	6634.4	6696.8	6750.6	6778.9
5°	6852.7	6818.6	6702.4	6594.6	6554.9	6597.4	6708.0	6810.1	6864.0
6°	6937.8	6886.6	6719.4	6557.7	6506.8	6566.3	6725.1	6881.1	6963.2
7°	7022.8	6940.6	6728.0	6529.4	6464.1	6546.5	6739.2	6960.4	7068.2
8°	7102.1	6991.5	6736.4	6504.0	6424.5	6509.6	6750.6	7031.2	7173.0
9°	7167.4	7039.7	6742.0	6484.2	6390.6	6487.0	6764.8	7093.7	7260.9
10°	7221.2	7076.6	6753.5	6472.7	6370.7	6475.6	6778.9	7147.6	7334.7
11°	7263.8	7102.1	6756.3	6467.1	6362.2	6467.1	6790.3	7201.4	7397.1
12°	7289.2	7124.8	6764.8	6469.9	6365.0	6475.6	6807.3	7224.1	7448.1
13°	7306.3	7133.3	6770.4	6478.4	6370.7	6481.2	6818.6	7244.0	7482.0
14°	7306.3	7127.8	6770.4	6487.0	6387.8	6492.5	6827.1	7258.0	7490.6
15°	7300.7	7124.8	6770.4	6501.0	6401.8	6504.0	6835.6	7266.6	7501.8
16°	7283.6	7107.8	6767.6	6509.6	6416.0	6515.3	6838.4	7260.9	7493.5
17°	7249.6	7099.4	6756.3	6518.1	6430.3	6526.6	6838.4	7246.8	7473.5
18°	7204.2	7039.7	6728.0	6509.6	6433.0	6523.8	6821.6	7209.9	7436.7
19°	7164.4	7005.8	6708.0	6504.0	6444.3	6532.3	6810.1	7184.4	7397.1
20°	7102.1	6949.0	6674.0	6487.0	6435.9	6515.3	6781.8	7139.0	7343.1
21°	7025.6	6883.9	6625.8	6458.6	6421.7	6492.5	6742.0	7076.6	7269.4
22°	6949.0	6810.1	6574.8	6430.3	6399.1	6472.7	6699.6	7011.3	7192.8
23°	6858.2	6728.0	6509.6	6382.0	6365.0	6427.5	6640.1	6940.6	7102.1
24°	6756.3	6631.5	6438.7	6328.1	6322.5	6379.2	6572.0	6847.0	6994.5
25°	6640.1	6529.4	6350.8	6260.1	6265.8	6314.0	6489.8	6742.0	6878.2
26°	6501.0	6399.1	6248.7	6177.9	6186.5	6234.6	6396.2	6620.2	6750.6
27°	6345.1	6251.5	6129.7	6078.6	6101.3	6143.8	6282.8	6487.0	6591.8
28°	6149.6	6075.8	5987.9	5965.3	5993.7	6041.8	6158.0	6325.3	6418.9
29°	5922.7	5883.1	5815.0	5826.3	5866.0	5905.7	6002.1	6124.0	6197.7
30°	5678.9	5661.9	5622.2	5667.6	5712.9	5747.0	5812.2	5894.3	5951.0
31°	5429.4	5409.6	5415.2	5488.9	5556.9	5579.6	5616.4	5656.2	5698.8
32°	5148.8	5143.0	5165.7	5273.6	5361.4	5372.7	5375.5	5386.8	5409.6
33°	4862.4	4853.8	4899.3	5032.5	5131.7	5140.2	5117.5	5106.2	5123.1
34°	4564.7	4564.7	4624.2	4763.1	4879.5	4887.8	4842.6	4836.8	4819.7
35°	4278.3	4269.8	4337.8	4468.3	4598.7	4601.6	4550.4	4519.2	4516.4
37.5°	3569.5	3555.3	3578.0	3646.0	3742.4	3793.5	3787.8	3776.5	3768.0
40°	2923.1	2889.1	2843.7	2815.3	2843.7	2948.6	3039.3	3081.9	3090.3
42.5°	2313.6	2265.4	2169.0	2089.5	2100.9	2197.4	2336.2	2432.6	2480.7
45°	1723.7	1675.6	1596.1	1536.6	1536.6	1604.7	1720.9	1820.1	1874.0
47.5°	1230.5	1199.4	1153.9	1128.4	1145.4	1173.7	1239.0	1312.8	1335.4
50°	847.7	839.1	813.7	813.7	830.7	853.4	864.8	901.6	910.1
52.5°	592.6	578.4	581.2	584.1	598.2	601.1	618.1	609.5	623.7
55°	388.3	388.3	388.3	396.9	402.6	402.6	394.1	388.3	388.3
57.5°	246.7	241.0	243.8	249.5	249.5	241.0	226.9	224.0	209.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	147.4	147.4	150.3	150.3	147.4	138.8	124.8	113.4	107.7
62.5°	76.5	79.3	79.3	93.6	79.3	70.9	65.2	51.0	48.2
65°	25.5	31.2	31.2	31.2	34.1	31.2	31.2	28.4	28.4
67.5°	17.0	19.8	19.8	22.6	22.6	22.6	22.6	28.4	19.8
70°	14.2	14.2	17.0	19.8	19.8	22.6	17.0	14.2	22.6
72.5°	8.5	11.4	8.5	14.2	11.4	11.4	11.4	11.4	11.4
75°	0.0	5.7	2.8	0.0	8.5	5.7	2.8	5.7	0.0
77.5°	2.8	2.8	2.8	2.8	5.7	5.7	5.7	5.7	2.8
80°	2.8	2.8	5.7	2.8	2.8	5.7	0.0	0.0	11.4
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	0.0	2.8	2.8
85°	0.0	2.8	2.8	2.8	2.8	2.8	5.7	5.7	0.0
87.5°	0.0	2.8	0.0	2.8	0.0	0.0	0.0	5.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)