

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: P247421

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247421
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 EC8B120950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11820.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

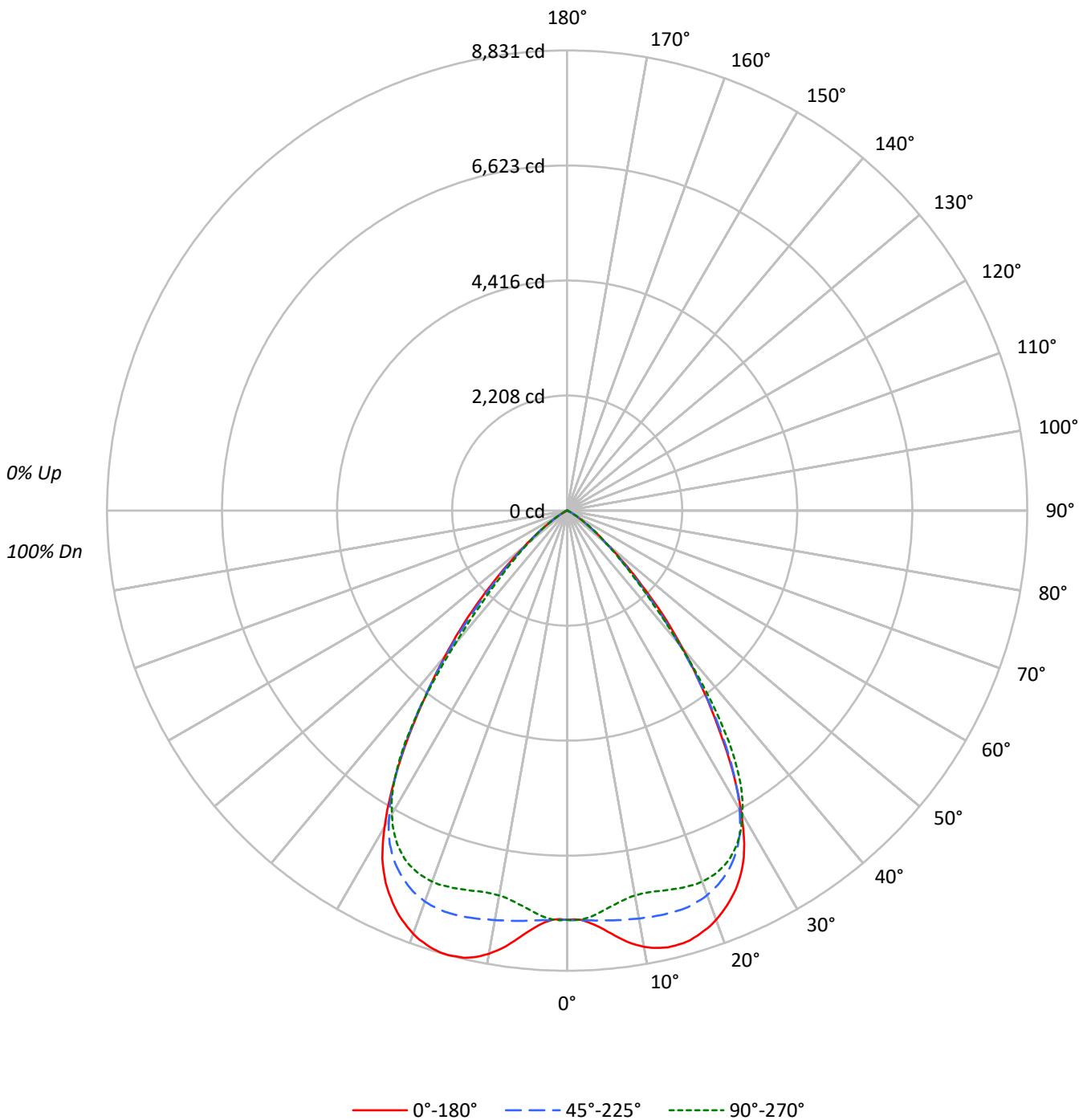
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	242275	242275	242275
5°	249710	238860	250122
10°	266180	234831	270364
15°	274372	240593	281931
20°	274362	248625	283672
25°	265960	250969	275500
30°	238042	239466	249450
35°	189595	203791	200150
40°	138518	134758	146444
45°	88492	78889	96210
50°	47872	46913	51398
55°	24580	25483	24580
60°	10700	10700	7820
65°	2196	2926	2437
70°	1497	2110	2407
75°	0	1191	0
80°	586	586	2362
85°	0	1168	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.3	6.4
10°-20°	2278.5	19.3
20°-30°	3468.0	29.3
30°-40°	3227.4	27.3
40°-50°	1570.8	13.3
50°-60°	447.6	3.8
60°-70°	58.5	0.5
70°-80°	9.2	0.1
80°-90°	2.8	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°	6503.8	55.0
0°-40°	9731.1	82.3
0°-60°	11749.5	99.4
0°-90°	11820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11820.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7857	7857	7857	7857	7857	
5°	8067	7890	7717	7897	8080	786
15°	8594	7970	7536	8047	8831	2418
25°	7817	7476	7376	7640	8097	3548
35°	5036	5106	5414	5357	5317	3132
45°	2029	1879	1809	2026	2206	1604
55°	457	457	474	464	457	448
65°	30	37	40	37	33	57
75°	0	3	10	3	0	6
85°	0	3	3	7	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°	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8
1°	7846.7	7856.8	7863.5	7860.2	7863.5	7860.2	7853.5	7840.1	7840.1
2°	7860.2	7873.5	7870.1	7863.5	7853.5	7853.5	7873.5	7846.7	7853.5
3°	7913.5	7913.5	7873.5	7836.8	7823.4	7836.8	7870.1	7890.1	7906.9
4°	7980.3	7966.9	7886.8	7803.5	7776.7	7810.0	7883.5	7946.9	7980.3
5°	8067.1	8027.0	7890.1	7763.3	7716.6	7766.6	7896.9	8016.9	8080.4
6°	8167.2	8107.1	7910.2	7719.9	7659.9	7730.0	7916.9	8100.5	8197.2
7°	8267.4	8170.5	7920.2	7686.5	7609.7	7706.6	7933.5	8193.9	8320.7
8°	8360.8	8230.6	7930.3	7656.6	7563.0	7663.2	7946.9	8277.3	8444.2
9°	8437.6	8287.3	7936.8	7633.2	7523.1	7636.5	7963.6	8350.8	8547.6
10°	8500.9	8330.7	7950.3	7619.8	7499.7	7623.2	7980.3	8414.2	8634.5
11°	8551.1	8360.8	7953.6	7613.2	7489.7	7613.2	7993.6	8477.6	8708.0
12°	8581.0	8387.5	7963.6	7616.5	7493.0	7623.2	8013.6	8504.4	8768.0
13°	8601.1	8397.5	7970.2	7626.5	7499.7	7629.8	8027.0	8527.7	8808.0
14°	8601.1	8390.9	7970.2	7636.5	7519.8	7643.1	8037.0	8544.3	8818.0
15°	8594.5	8387.5	7970.2	7653.2	7536.4	7656.6	8047.0	8554.4	8831.3
16°	8574.4	8367.4	7966.9	7663.2	7553.0	7669.9	8050.3	8547.6	8821.4
17°	8534.3	8357.5	7953.6	7673.2	7569.8	7683.2	8050.3	8531.0	8797.9
18°	8480.9	8287.3	7920.2	7663.2	7573.1	7679.9	8030.4	8487.6	8754.7
19°	8434.2	8247.3	7896.9	7656.6	7586.4	7690.0	8016.9	8457.5	8708.0
20°	8360.8	8180.6	7856.8	7636.5	7576.5	7669.9	7983.7	8404.2	8644.5
21°	8270.7	8103.8	7800.0	7603.2	7559.7	7643.1	7936.8	8330.7	8557.7
22°	8180.6	8016.9	7740.0	7569.8	7533.1	7619.8	7886.8	8253.9	8467.5
23°	8073.7	7920.2	7663.2	7513.0	7493.0	7566.5	7816.8	8170.5	8360.8
24°	7953.6	7806.7	7579.8	7449.6	7443.0	7509.7	7736.7	8060.4	8234.0
25°	7816.8	7686.5	7476.3	7369.5	7376.2	7432.9	7639.8	7936.8	8097.2
26°	7653.2	7533.1	7356.1	7272.8	7282.8	7339.5	7529.7	7793.4	7946.9
27°	7469.6	7359.4	7216.0	7155.8	7182.6	7232.6	7396.3	7636.5	7760.0
28°	7239.4	7152.5	7049.1	7022.4	7055.8	7112.6	7249.4	7446.3	7556.4
29°	6972.3	6925.6	6845.5	6858.8	6905.5	6952.2	7065.7	7209.3	7296.1
30°	6685.3	6665.3	6618.5	6672.0	6725.3	6765.4	6842.2	6938.9	7005.7
31°	6391.6	6368.2	6374.8	6461.7	6541.8	6568.4	6611.8	6658.5	6708.7
32°	6061.2	6054.5	6081.1	6208.1	6311.5	6324.8	6328.1	6341.5	6368.2
33°	5724.1	5714.0	5767.5	5924.4	6041.1	6051.2	6024.4	6011.1	6031.1
34°	5373.6	5373.6	5443.7	5607.3	5744.1	5754.0	5700.7	5694.0	5673.9
35°	5036.5	5026.5	5106.5	5260.1	5413.6	5417.0	5356.9	5320.2	5316.9
37.5°	4202.0	4185.4	4212.1	4292.2	4405.6	4465.8	4459.1	4445.7	4435.7
40°	3441.1	3401.1	3347.7	3314.3	3347.7	3471.2	3577.9	3628.1	3638.0
42.5°	2723.6	2666.8	2553.3	2459.8	2473.2	2586.7	2750.2	2863.7	2920.4
45°	2029.2	1972.5	1879.1	1809.0	1809.0	1889.1	2025.9	2142.7	2206.2
47.5°	1448.5	1411.9	1358.4	1328.3	1348.4	1381.8	1458.6	1545.4	1572.0
50°	997.9	987.9	957.9	957.9	977.9	1004.7	1018.0	1061.4	1071.4
52.5°	697.6	680.9	684.2	687.6	704.2	707.6	727.6	717.5	734.3
55°	457.2	457.2	457.2	467.2	474.0	474.0	463.9	457.2	457.2
57.5°	290.4	283.7	287.0	293.7	293.7	283.7	267.1	263.6	247.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	173.5	173.5	176.9	176.9	173.5	163.5	146.9	133.5	126.8
62.5°	90.1	93.4	93.4	110.2	93.4	83.4	76.8	60.0	56.7
65°	30.1	36.7	36.7	36.7	40.1	36.7	36.7	33.4	33.4
67.5°	20.1	23.4	23.4	26.7	26.7	26.7	26.7	33.4	23.4
70°	16.6	16.6	20.1	23.4	23.4	26.7	20.1	16.6	26.7
72.5°	10.0	13.3	10.0	16.6	13.3	13.3	13.3	13.3	13.3
75°	0.0	6.7	3.3	0.0	10.0	6.7	3.3	6.7	0.0
77.5°	3.3	3.3	3.3	3.3	6.7	6.7	6.7	6.7	3.3
80°	3.3	3.3	6.7	3.3	3.3	6.7	0.0	0.0	13.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	0.0	3.3	3.3
85°	0.0	3.3	3.3	3.3	3.3	3.3	6.7	6.7	0.0
87.5°	0.0	3.3	0.0	3.3	0.0	0.0	0.0	6.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)