

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: P247393

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247393
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 EC8B120835 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12818.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

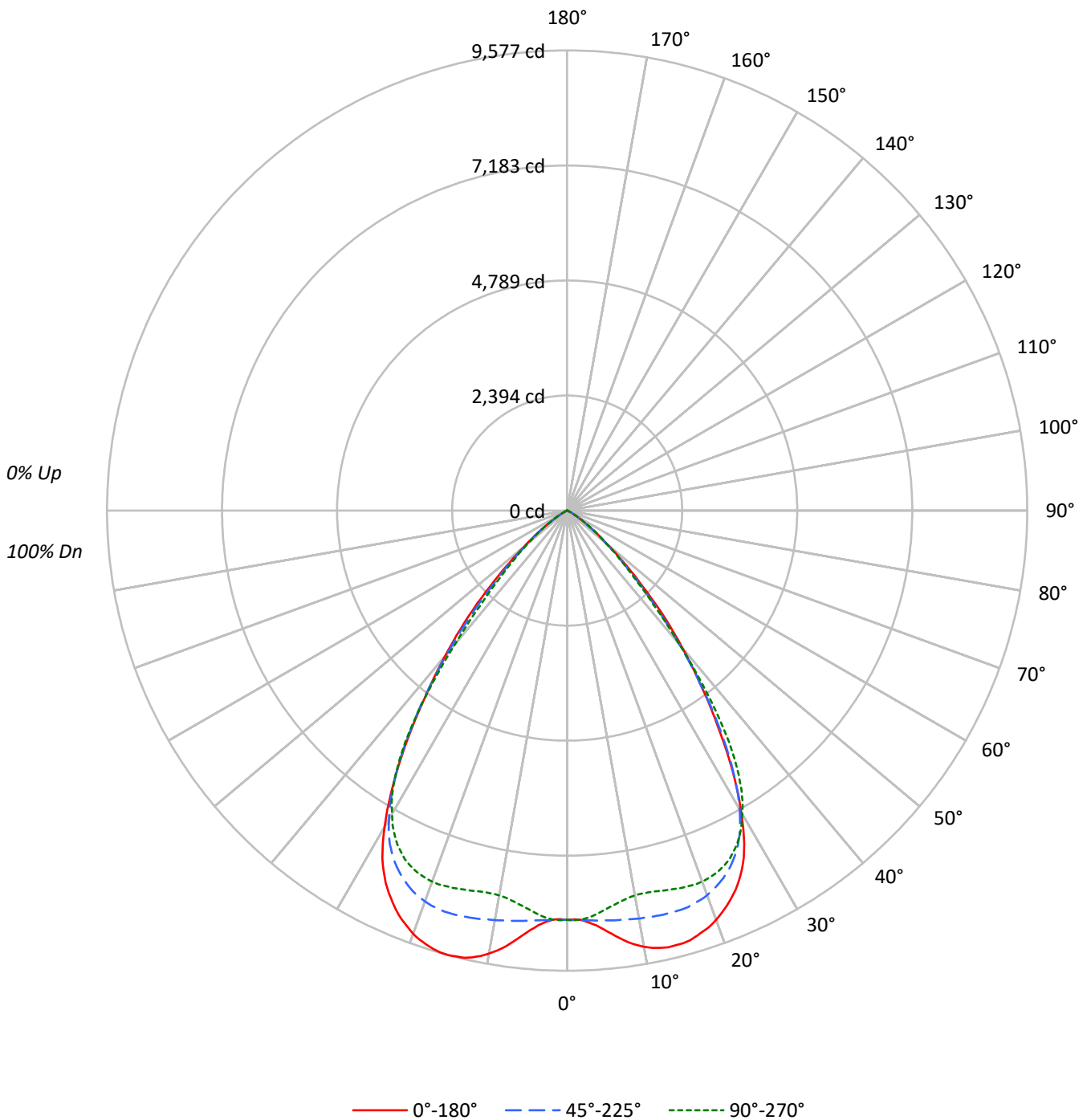
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	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°	262728	262728	262728
5°	270793	259030	271242
10°	288656	254657	293190
15°	297536	260906	305737
20°	297527	269617	307624
25°	288416	272159	298759
30°	258142	259683	270511
35°	205601	220998	217049
40°	150212	146134	158806
45°	95966	85552	104335
50°	51916	50870	55740
55°	26655	27633	26655
60°	11607	11607	8480
65°	2379	3174	2641
70°	1623	2281	2606
75°	0	1299	0
80°	639	639	2575
85°	0	1274	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.2	6.4
10°-20°	2470.8	19.3
20°-30°	3760.8	29.3
30°-40°	3499.9	27.3
40°-50°	1703.4	13.3
50°-60°	485.4	3.8
60°-70°	63.4	0.5
70°-80°	10.1	0.1
80°-90°	3.0	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°	7052.9	55.0
0°-40°	10552.7	82.3
0°-60°	12741.5	99.4
0°-90°	12818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12818.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8520	8520	8520	8520	8520	
5°	8748	8556	8368	8564	8763	852
15°	9320	8643	8173	8726	9577	2622
25°	8477	8108	7999	8285	8781	3848
35°	5462	5538	5871	5809	5766	3396
45°	2201	2038	1962	2197	2392	1739
55°	496	496	514	503	496	486
65°	33	40	44	40	36	62
75°	0	4	11	4	0	7
85°	0	4	4	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°	8520.1	8520.1	8520.1	8520.1	8520.1	8520.1	8520.1	8520.1	8520.1
1°	8509.2	8520.1	8527.4	8523.8	8527.4	8523.8	8516.5	8502.1	8502.1
2°	8523.8	8538.3	8534.6	8527.4	8516.5	8516.5	8538.3	8509.2	8516.5
3°	8581.7	8581.7	8538.3	8498.5	8483.9	8498.5	8534.6	8556.3	8574.5
4°	8654.1	8639.6	8552.8	8462.3	8433.3	8469.5	8549.2	8617.9	8654.1
5°	8748.2	8704.7	8556.3	8418.8	8368.2	8422.4	8563.6	8693.8	8762.7
6°	8856.8	8791.6	8578.1	8371.7	8306.6	8382.6	8585.4	8784.4	8889.3
7°	8965.4	8860.4	8589.0	8335.5	8252.3	8357.3	8603.4	8885.7	9023.2
8°	9066.7	8925.5	8599.8	8303.1	8201.6	8310.2	8617.9	8976.2	9157.2
9°	9150.0	8987.0	8607.0	8277.7	8158.3	8281.3	8636.0	9055.9	9269.3
10°	9218.7	9034.1	8621.6	8263.1	8132.9	8266.9	8654.1	9124.7	9363.5
11°	9273.1	9066.7	8625.2	8256.0	8122.1	8256.0	8668.5	9193.4	9443.2
12°	9305.5	9095.6	8636.0	8259.6	8125.6	8266.9	8690.3	9222.4	9508.3
13°	9327.3	9106.5	8643.2	8270.4	8132.9	8274.0	8704.7	9247.7	9551.7
14°	9327.3	9099.4	8643.2	8281.3	8154.7	8288.5	8715.6	9265.8	9562.5
15°	9320.1	9095.6	8643.2	8299.3	8172.7	8303.1	8726.5	9276.6	9577.0
16°	9298.4	9073.9	8639.6	8310.2	8190.7	8317.5	8730.0	9269.3	9566.3
17°	9254.9	9063.2	8625.2	8321.1	8208.9	8332.0	8730.0	9251.3	9540.8
18°	9196.9	8987.0	8589.0	8310.2	8212.5	8328.4	8708.4	9204.2	9493.9
19°	9146.3	8943.7	8563.6	8303.1	8226.9	8339.3	8693.8	9171.6	9443.2
20°	9066.7	8871.3	8520.1	8281.3	8216.2	8317.5	8657.8	9113.8	9374.4
21°	8969.0	8788.0	8458.6	8245.1	8198.0	8288.5	8607.0	9034.1	9280.2
22°	8871.3	8693.8	8393.5	8208.9	8169.1	8263.1	8552.8	8950.8	9182.5
23°	8755.4	8589.0	8310.2	8147.4	8125.6	8205.3	8476.8	8860.4	9066.7
24°	8625.2	8465.9	8219.8	8078.6	8071.4	8143.8	8389.9	8740.9	8929.2
25°	8476.8	8335.5	8107.6	7991.7	7999.0	8060.5	8284.9	8607.0	8780.8
26°	8299.3	8169.1	7977.2	7886.8	7897.7	7959.2	8165.4	8451.4	8617.9
27°	8100.3	7980.8	7825.3	7760.0	7789.1	7843.3	8020.7	8281.3	8415.2
28°	7850.6	7756.5	7644.3	7615.4	7651.6	7713.1	7861.5	8075.0	8194.5
29°	7561.0	7510.3	7423.5	7437.9	7488.6	7539.2	7662.3	7818.0	7912.1
30°	7249.8	7228.0	7177.4	7235.3	7293.1	7336.6	7419.9	7524.8	7597.2
31°	6931.3	6905.9	6913.1	7007.2	7094.1	7123.0	7170.1	7220.7	7275.1
32°	6573.0	6565.7	6594.6	6732.2	6844.4	6858.9	6862.4	6876.9	6905.9
33°	6207.4	6196.5	6254.4	6424.6	6551.2	6562.1	6533.0	6518.6	6540.3
34°	5827.3	5827.3	5903.3	6080.7	6229.1	6239.8	6182.0	6174.7	6153.0
35°	5461.7	5450.9	5537.7	5704.3	5870.7	5874.4	5809.1	5769.4	5765.8
37.5°	4556.8	4538.8	4567.7	4654.6	4777.6	4842.9	4835.6	4821.1	4810.2
40°	3731.6	3688.3	3630.3	3594.1	3630.3	3764.3	3880.0	3934.4	3945.1
42.5°	2953.5	2892.0	2768.9	2667.5	2682.1	2805.1	2982.4	3105.5	3167.0
45°	2200.6	2139.0	2037.7	1961.8	1961.8	2048.6	2197.0	2323.6	2392.5
47.5°	1570.8	1531.1	1473.1	1440.5	1462.2	1498.4	1581.7	1675.9	1704.8
50°	1082.2	1071.3	1038.8	1038.8	1060.4	1089.5	1103.9	1151.0	1161.9
52.5°	756.5	738.3	741.9	745.6	763.7	767.4	789.0	778.1	796.3
55°	495.8	495.8	495.8	506.7	514.0	514.0	503.1	495.8	495.8
57.5°	314.9	307.6	311.2	318.5	318.5	307.6	289.6	285.9	267.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	188.2	188.2	191.9	191.9	188.2	177.3	159.3	144.8	137.5
62.5°	97.7	101.3	101.3	119.5	101.3	90.4	83.3	65.1	61.5
65°	32.6	39.8	39.8	39.8	43.5	39.8	39.8	36.2	36.2
67.5°	21.8	25.3	25.3	28.9	28.9	28.9	28.9	36.2	25.3
70°	18.0	18.0	21.8	25.3	25.3	28.9	21.8	18.0	28.9
72.5°	10.9	14.5	10.9	18.0	14.5	14.5	14.5	14.5	14.5
75°	0.0	7.3	3.6	0.0	10.9	7.3	3.6	7.3	0.0
77.5°	3.6	3.6	3.6	3.6	7.3	7.3	7.3	7.3	3.6
80°	3.6	3.6	7.3	3.6	3.6	7.3	0.0	0.0	14.5
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	3.6	3.6
85°	0.0	3.6	3.6	3.6	3.6	3.6	7.3	7.3	0.0
87.5°	0.0	3.6	0.0	3.6	0.0	0.0	0.0	7.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)