

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: P247389

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247389
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 EC8B120830 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12326.0 lumens
Efficiency: N/A
Efficacy: 104.2 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

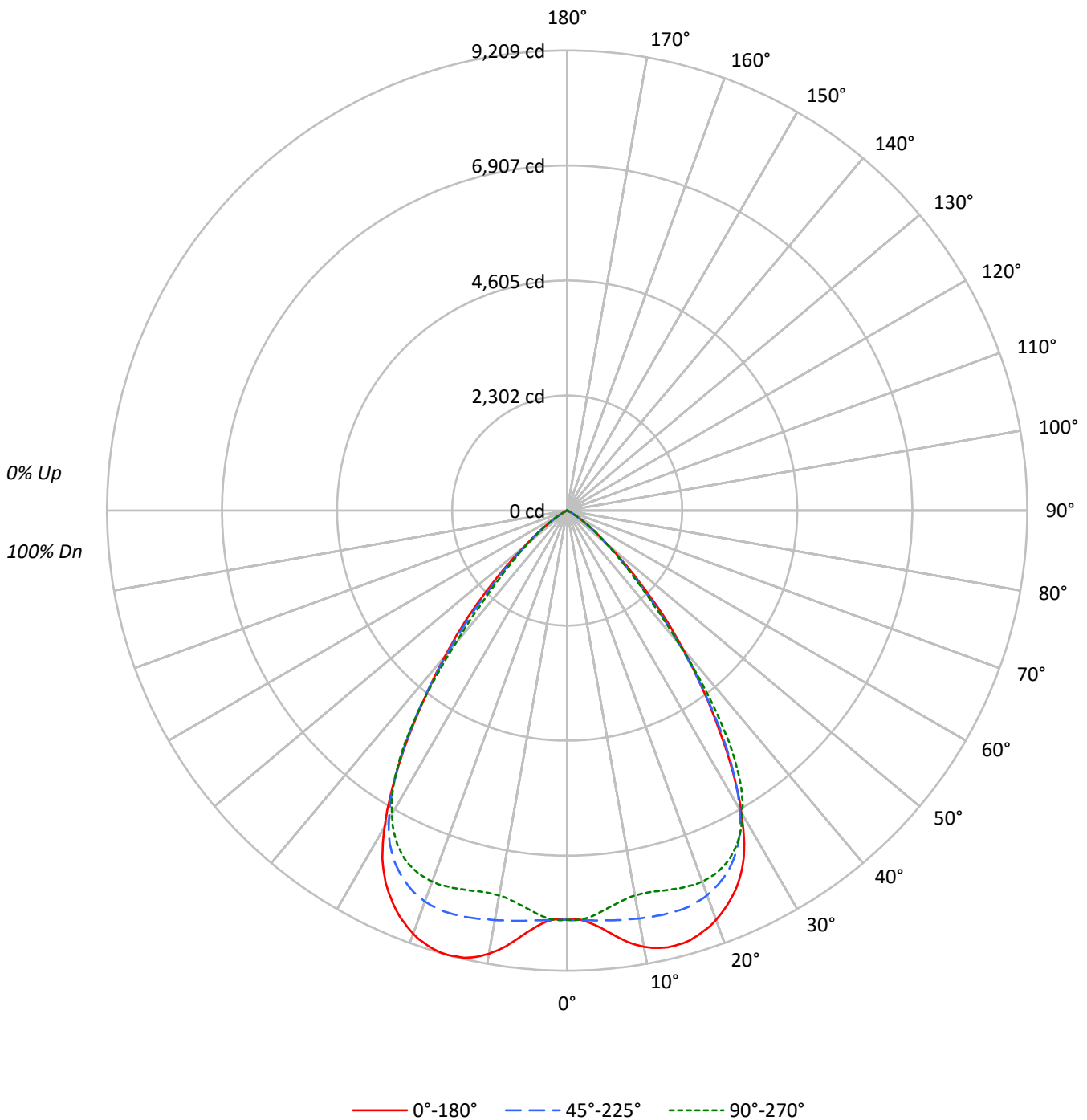
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	252645	252645	252645
5°	260398	249088	260829
10°	277575	244885	281937
15°	286117	250892	294002
20°	286107	259267	295817
25°	277344	261713	287293
30°	248232	249717	260128
35°	197711	212513	208718
40°	144447	140527	152711
45°	92281	82269	100327
50°	49920	48918	53600
55°	25633	26574	25633
60°	11157	11157	8153
65°	2291	3050	2539
70°	1560	2200	2506
75°	0	1251	0
80°	604	604	2468
85°	0	1203	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.7	6.4
10°-20°	2376.0	19.3
20°-30°	3616.4	29.3
30°-40°	3365.5	27.3
40°-50°	1638.0	13.3
50°-60°	466.7	3.8
60°-70°	61.0	0.5
70°-80°	9.6	0.1
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°	6782.2	55.0
0°-40°	10147.7	82.3
0°-60°	12252.4	99.4
0°-90°	12326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12326.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8193	8193	8193	8193	8193	
5°	8412	8228	8047	8235	8426	819
15°	8962	8311	7859	8392	9209	2522
25°	8151	7796	7692	7967	8444	3700
35°	5252	5325	5645	5586	5544	3266
45°	2116	1960	1886	2113	2301	1673
55°	477	477	494	484	477	468
65°	31	38	42	38	35	60
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°	8193.1	8193.1	8193.1	8193.1	8193.1	8193.1	8193.1	8193.1	8193.1
1°	8182.6	8193.1	8200.1	8196.7	8200.1	8196.7	8189.7	8175.8	8175.8
2°	8196.7	8210.6	8207.0	8200.1	8189.7	8189.7	8210.6	8182.6	8189.7
3°	8252.3	8252.3	8210.6	8172.3	8158.3	8172.3	8207.0	8227.9	8245.4
4°	8321.9	8308.0	8224.5	8137.5	8109.6	8144.4	8221.0	8287.1	8321.9
5°	8412.4	8370.6	8227.9	8095.7	8047.0	8099.1	8234.9	8360.1	8426.3
6°	8516.9	8454.1	8248.8	8050.4	7987.8	8060.9	8255.8	8447.2	8548.1
7°	8621.3	8520.3	8259.3	8015.6	7935.5	8036.5	8273.2	8544.7	8676.9
8°	8718.7	8582.9	8269.7	7984.4	7886.8	7991.2	8287.1	8631.6	8805.7
9°	8798.8	8642.1	8276.6	7960.0	7845.1	7963.4	8304.5	8708.3	8913.6
10°	8864.8	8687.3	8290.7	7946.0	7820.8	7949.5	8321.9	8774.4	9004.1
11°	8917.1	8718.7	8294.1	7939.1	7810.3	7939.1	8335.8	8840.5	9080.7
12°	8948.4	8746.5	8304.5	7942.5	7813.7	7949.5	8356.7	8868.4	9143.3
13°	8969.3	8757.0	8311.4	7953.0	7820.8	7956.4	8370.6	8892.8	9185.0
14°	8969.3	8750.1	8311.4	7963.4	7841.7	7970.3	8381.1	8910.1	9195.5
15°	8962.4	8746.5	8311.4	7980.8	7859.0	7984.4	8391.5	8920.6	9209.4
16°	8941.5	8725.6	8308.0	7991.2	7876.3	7998.3	8394.9	8913.6	9199.1
17°	8899.7	8715.3	8294.1	8001.7	7893.8	8012.2	8394.9	8896.2	9174.6
18°	8843.9	8642.1	8259.3	7991.2	7897.3	8008.7	8374.2	8850.9	9129.4
19°	8795.2	8600.4	8234.9	7984.4	7911.2	8019.2	8360.1	8819.6	9080.7
20°	8718.7	8530.8	8193.1	7963.4	7900.8	7998.3	8325.5	8764.0	9014.6
21°	8624.7	8450.7	8133.9	7928.6	7883.4	7970.3	8276.6	8687.3	8924.0
22°	8530.8	8360.1	8071.3	7893.8	7855.6	7946.0	8224.5	8607.3	8830.0
23°	8419.3	8259.3	7991.2	7834.7	7813.7	7890.4	8151.4	8520.3	8718.7
24°	8294.1	8140.9	7904.3	7768.5	7761.6	7831.2	8067.9	8405.4	8586.5
25°	8151.4	8015.6	7796.4	7684.9	7692.0	7751.1	7966.9	8276.6	8443.8
26°	7980.8	7855.6	7671.0	7584.1	7594.5	7653.7	7852.0	8127.0	8287.1
27°	7789.4	7674.5	7524.9	7462.2	7490.1	7542.3	7712.9	7963.4	8092.2
28°	7549.3	7458.7	7350.9	7323.1	7357.9	7417.0	7559.7	7765.0	7879.9
29°	7270.8	7222.1	7138.5	7152.4	7201.2	7249.9	7368.2	7517.9	7608.4
30°	6971.5	6950.6	6901.9	6957.6	7013.2	7055.0	7135.1	7236.0	7305.6
31°	6665.2	6640.9	6647.7	6738.3	6821.8	6849.6	6894.9	6943.6	6995.9
32°	6320.7	6313.7	6341.4	6473.8	6581.7	6595.6	6599.0	6612.9	6640.9
33°	5969.1	5958.7	6014.4	6178.0	6299.8	6310.2	6282.3	6268.4	6289.3
34°	5603.7	5603.7	5676.7	5847.3	5990.0	6000.3	5944.8	5937.7	5916.8
35°	5252.1	5241.6	5325.2	5485.3	5645.3	5648.9	5586.2	5547.9	5544.5
37.5°	4381.9	4364.6	4392.4	4475.9	4594.2	4657.0	4650.0	4636.1	4625.6
40°	3588.4	3546.7	3491.0	3456.2	3491.0	3619.8	3731.1	3783.4	3793.7
42.5°	2840.1	2781.0	2662.6	2565.1	2579.1	2697.5	2867.9	2986.3	3045.4
45°	2116.1	2056.9	1959.5	1886.5	1886.5	1970.0	2112.7	2234.4	2300.6
47.5°	1510.5	1472.3	1416.6	1385.2	1406.1	1440.9	1521.0	1611.5	1639.3
50°	1040.6	1030.2	999.0	999.0	1019.7	1047.7	1061.6	1106.8	1117.3
52.5°	727.5	710.0	713.4	717.0	734.4	737.9	758.7	748.3	765.7
55°	476.8	476.8	476.8	487.2	494.3	494.3	483.8	476.8	476.8
57.5°	302.9	295.8	299.3	306.3	306.3	295.8	278.5	274.9	257.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	180.9	180.9	184.5	184.5	180.9	170.5	153.1	139.2	132.2
62.5°	94.0	97.4	97.4	114.9	97.4	87.0	80.1	62.6	59.2
65°	31.4	38.3	38.3	38.3	41.8	38.3	38.3	34.8	34.8
67.5°	20.9	24.4	24.4	27.8	27.8	27.8	27.8	34.8	24.4
70°	17.3	17.3	20.9	24.4	24.4	27.8	20.9	17.3	27.8
72.5°	10.5	13.9	10.5	17.3	13.9	13.9	13.9	13.9	13.9
75°	0.0	7.0	3.4	0.0	10.5	7.0	3.4	7.0	0.0
77.5°	3.4	3.4	3.4	3.4	7.0	7.0	7.0	7.0	3.4
80°	3.4	3.4	7.0	3.4	3.4	7.0	0.0	0.0	13.9
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	0.0	3.4	3.4
85°	0.0	3.4	3.4	3.4	3.4	3.4	7.0	7.0	0.0
87.5°	0.0	3.4	0.0	3.4	0.0	0.0	0.0	7.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)