

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: P247384

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247384
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: LSR8B100D010 EC8B100827 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10607.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

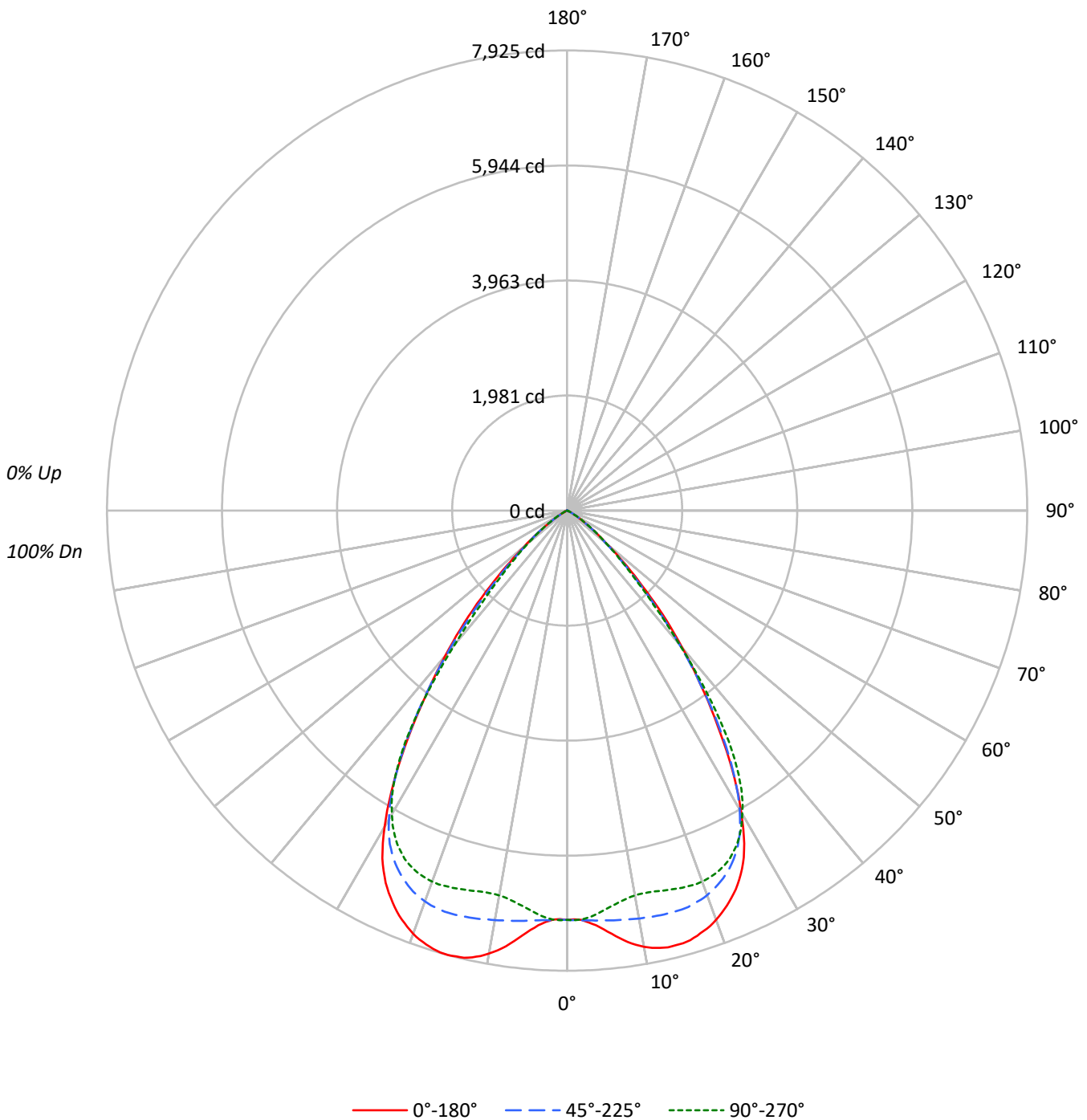
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	217411	217411	217411
5°	224083	214348	224454
10°	238864	210733	242618
15°	246215	215903	252999
20°	246207	223111	254562
25°	238666	225212	247226
30°	213615	214890	223849
35°	170137	182875	179608
40°	124304	120927	131413
45°	79412	70795	86337
50°	42960	42096	46126
55°	22058	22865	22058
60°	9602	9602	7018
65°	1970	2627	2189
70°	1343	1893	2155
75°	0	1072	0
80°	533	533	2131
85°	0	1061	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.6	6.4
10°-20°	2044.6	19.3
20°-30°	3112.1	29.3
30°-40°	2896.2	27.3
40°-50°	1409.6	13.3
50°-60°	401.6	3.8
60°-70°	52.5	0.5
70°-80°	8.3	0.1
80°-90°	2.5	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°	5836.3	55.0
0°-40°	8732.5	82.3
0°-60°	10543.7	99.4
0°-90°	10607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10607.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7050	7050	7050	7050	7050	
5°	7239	7080	6925	7086	7251	705
15°	7712	7152	6763	7221	7925	2170
25°	7015	6709	6619	6856	7266	3184
35°	4520	4582	4858	4807	4771	2810
45°	1821	1686	1623	1818	1980	1439
55°	410	410	425	416	410	402
65°	27	33	36	33	30	52
75°	0	3	9	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°	7050.5	7050.5	7050.5	7050.5	7050.5	7050.5	7050.5	7050.5	7050.5
1°	7041.5	7050.5	7056.5	7053.6	7056.5	7053.6	7047.5	7035.6	7035.6
2°	7053.6	7065.5	7062.4	7056.5	7047.5	7047.5	7065.5	7041.5	7047.5
3°	7101.4	7101.4	7065.5	7032.6	7020.5	7032.6	7062.4	7080.4	7095.5
4°	7161.3	7149.3	7077.5	7002.6	6978.6	7008.6	7074.5	7131.3	7161.3
5°	7239.2	7203.2	7080.4	6966.6	6924.7	6969.6	7086.5	7194.2	7251.2
6°	7329.1	7275.1	7098.4	6927.7	6873.8	6936.7	7104.5	7269.2	7356.0
7°	7419.0	7332.0	7107.4	6897.7	6828.8	6915.7	7119.4	7353.0	7466.8
8°	7502.8	7385.9	7116.4	6870.9	6786.9	6876.8	7131.3	7427.8	7577.6
9°	7571.7	7436.8	7122.3	6849.9	6751.0	6852.9	7146.4	7493.8	7670.5
10°	7628.5	7475.8	7134.4	6837.8	6730.1	6840.9	7161.3	7550.8	7748.4
11°	7673.5	7502.8	7137.4	6831.9	6721.1	6831.9	7173.3	7607.6	7814.3
12°	7700.4	7526.7	7146.4	6834.9	6724.0	6840.9	7191.3	7631.6	7868.2
13°	7718.4	7535.7	7152.3	6843.9	6730.1	6846.8	7203.2	7652.6	7904.1
14°	7718.4	7529.8	7152.3	6852.9	6748.1	6858.8	7212.2	7667.5	7913.1
15°	7712.5	7526.7	7152.3	6867.8	6763.0	6870.9	7221.2	7676.5	7925.0
16°	7694.5	7508.7	7149.3	6876.8	6777.9	6882.8	7224.2	7670.5	7916.2
17°	7658.5	7499.8	7137.4	6885.8	6792.9	6894.8	7224.2	7655.5	7895.1
18°	7610.5	7436.8	7107.4	6876.8	6795.9	6891.8	7206.3	7616.6	7856.2
19°	7568.6	7401.0	7086.5	6870.9	6807.9	6900.8	7194.2	7589.6	7814.3
20°	7502.8	7341.0	7050.5	6852.9	6799.0	6882.8	7164.4	7541.8	7757.4
21°	7421.9	7272.1	6999.6	6822.9	6783.9	6858.8	7122.3	7475.8	7679.5
22°	7341.0	7194.2	6945.7	6792.9	6760.0	6837.8	7077.5	7406.9	7598.6
23°	7245.1	7107.4	6876.8	6742.0	6724.0	6790.0	7014.6	7332.0	7502.8
24°	7137.4	7005.6	6801.9	6685.1	6679.1	6739.1	6942.7	7233.2	7389.0
25°	7014.6	6897.7	6709.1	6613.2	6619.2	6670.1	6855.8	7122.3	7266.2
26°	6867.8	6760.0	6601.2	6526.4	6535.4	6586.3	6756.9	6993.6	7131.3
27°	6703.1	6604.2	6475.5	6421.5	6445.5	6490.4	6637.2	6852.9	6963.7
28°	6496.4	6418.5	6325.7	6301.8	6331.7	6382.7	6505.4	6682.1	6781.0
29°	6256.8	6214.9	6143.0	6155.0	6196.9	6238.8	6340.6	6469.4	6547.4
30°	5999.3	5981.3	5939.3	5987.3	6035.1	6071.1	6140.0	6226.8	6286.7
31°	5735.7	5714.7	5720.6	5798.5	5870.4	5894.3	5933.3	5975.2	6020.2
32°	5439.2	5433.1	5457.1	5571.0	5663.8	5675.8	5678.7	5690.7	5714.7
33°	5136.7	5127.7	5175.6	5316.4	5421.2	5430.2	5406.1	5394.2	5412.2
34°	4822.2	4822.2	4885.0	5031.9	5154.6	5163.5	5115.7	5109.7	5091.7
35°	4519.6	4510.6	4582.5	4720.3	4858.0	4861.1	4807.1	4774.2	4771.2
37.5°	3770.8	3755.9	3779.8	3851.7	3953.5	4007.5	4001.5	3989.5	3980.5
40°	3088.0	3052.1	3004.1	2974.2	3004.1	3115.0	3210.7	3255.7	3264.6
42.5°	2444.1	2393.1	2291.3	2207.4	2219.4	2321.3	2468.0	2569.8	2620.7
45°	1821.0	1770.1	1686.2	1623.4	1623.4	1695.2	1818.0	1922.8	1979.8
47.5°	1299.9	1267.0	1219.0	1192.0	1210.0	1240.0	1308.9	1386.8	1410.7
50°	895.5	886.5	859.6	859.6	877.5	901.6	913.5	952.5	961.5
52.5°	626.0	611.0	613.9	617.0	631.9	635.0	652.9	643.9	658.9
55°	410.3	410.3	410.3	419.3	425.3	425.3	416.3	410.3	410.3
57.5°	260.6	254.6	257.5	263.6	263.6	254.6	239.7	236.6	221.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	155.7	155.7	158.8	158.8	155.7	146.7	131.8	119.8	113.8
62.5°	80.9	83.8	83.8	98.9	83.8	74.8	68.9	53.9	50.9
65°	27.0	32.9	32.9	32.9	36.0	32.9	32.9	30.0	30.0
67.5°	18.0	21.0	21.0	23.9	23.9	23.9	23.9	30.0	21.0
70°	14.9	14.9	18.0	21.0	21.0	23.9	18.0	14.9	23.9
72.5°	9.0	12.0	9.0	14.9	12.0	12.0	12.0	12.0	12.0
75°	0.0	6.0	3.0	0.0	9.0	6.0	3.0	6.0	0.0
77.5°	3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	3.0
80°	3.0	3.0	6.0	3.0	3.0	6.0	0.0	0.0	12.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0
85°	0.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	0.0
87.5°	0.0	3.0	0.0	3.0	0.0	0.0	0.0	6.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)