

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: P250134

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80835 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8396.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

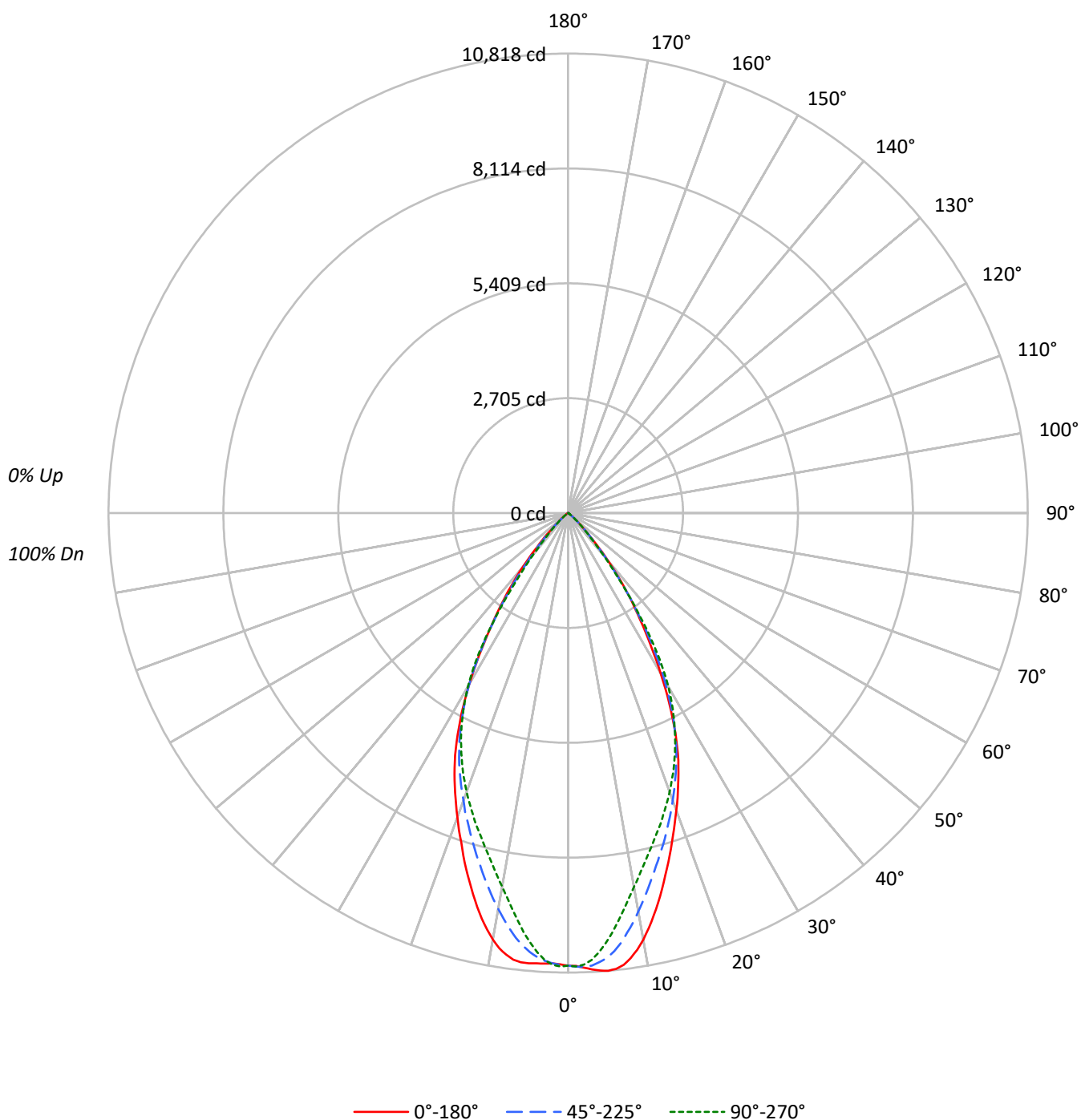
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106	111	109	107	105		105	103	101		101	100	98		98	97	96
2	108	103	99	96	106	102	98	95		98	95	93		95	93	91		93	91	89
3	103	97	92	88	101	95	91	87		93	89	86		90	87	84		88	85	83
4	98	90	85	81	96	89	84	80		87	83	79		85	81	78		83	80	77
5	93	85	79	75	91	84	78	74		82	77	74		80	76	73		79	75	72
6	88	80	74	69	87	79	73	69		77	72	69		76	72	68		75	71	68
7	84	75	69	65	83	74	69	65		73	68	64		72	67	64		71	67	64
8	80	71	65	61	79	70	64	61		69	64	60		68	63	60		67	63	60
9	76	67	61	57	75	66	61	57		65	60	57		64	60	56		64	59	56
10	73	63	57	54	72	63	57	54		62	57	53		61	56	53		60	56	53

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	328570	328570	328570
5°	334877	314590	329423
10°	319279	279857	319198
15°	281938	252411	286733
20°	244326	229107	250105
25°	206434	202906	214012
30°	155153	167978	165763
35°	103860	109812	112639
40°	58191	49951	66741
45°	23388	20562	27792
50°	8079	7829	9571
55°	2231	2650	2511
60°	1277	1597	1437
65°	1131	941	752
70°	0	703	469
75°	0	0	0
80°	0	0	462
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.3	11.5
10°-20°	2339.5	27.9
20°-30°	2742.0	32.7
30°-40°	1804.1	21.5
40°-50°	470.8	5.6
50°-60°	57.9	0.7
60°-70°	12.0	0.1
70°-80°	2.2	0.0
80°-90°	0.1	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°	6048.9	72.0
0°-40°	7853.0	93.5
0°-60°	8381.7	99.8
0°-90°	8396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8396.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10655	10655	10655	10655	10655	
5°	10818	10510	10163	10373	10642	###
15°	8832	8332	7907	8332	8982	2462
25°	6067	6008	5964	6065	6290	2735
35°	2759	2821	2917	2946	2992	1727
45°	536	505	472	547	637	481
55°	42	44	49	49	47	55
65°	16	13	13	10	10	11
75°	0	3	0	0	0	1
85°	0	0	0	0	0	0
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°	10655.3	10655.3	10655.3	10655.3	10655.3	10655.3	10655.3	10655.3	10655.3
1°	10663.0	10678.6	10683.7	10699.3	10676.0	10660.5	10639.7	10624.2	10626.7
2°	10709.7	10717.5	10688.9	10678.6	10637.1	10624.2	10608.6	10606.0	10608.6
3°	10758.9	10743.3	10668.2	10598.3	10536.1	10528.3	10556.8	10598.3	10621.6
4°	10797.8	10756.3	10598.3	10468.7	10370.3	10362.5	10476.5	10582.7	10626.7
5°	10818.5	10743.3	10510.2	10292.6	10163.1	10212.3	10372.9	10562.0	10642.3
6°	10790.0	10678.6	10375.5	10085.3	9937.7	10002.4	10238.2	10512.8	10631.9
7°	10717.5	10575.0	10201.9	9859.9	9678.6	9779.6	10080.1	10429.9	10593.1
8°	10582.7	10411.7	9981.7	9598.3	9419.5	9533.5	9885.9	10310.7	10499.8
9°	10406.5	10217.4	9764.1	9359.9	9168.2	9302.9	9683.8	10152.7	10370.3
10°	10196.7	9994.6	9523.2	9111.3	8937.7	9064.6	9466.2	9968.7	10194.1
11°	9950.6	9756.3	9282.2	8878.1	8712.3	8836.7	9248.6	9748.6	9992.0
12°	9683.8	9505.0	9036.1	8652.7	8497.3	8616.4	9015.4	9520.6	9761.5
13°	9416.9	9238.2	8797.8	8435.1	8292.6	8406.6	8787.4	9271.9	9512.8
14°	9129.4	8966.2	8559.5	8227.8	8098.3	8207.1	8554.3	9020.6	9248.6
15°	8831.5	8701.9	8331.5	8028.3	7906.6	8010.2	8331.5	8761.5	8981.7
16°	8551.7	8432.5	8111.2	7831.4	7730.5	7813.3	8106.1	8502.5	8712.3
17°	8266.7	8157.9	7891.0	7637.2	7546.5	7626.8	7875.5	8240.8	8429.9
18°	7981.7	7891.0	7650.2	7432.5	7352.2	7424.7	7647.6	7976.5	8147.5
19°	7717.5	7634.6	7429.9	7246.0	7173.5	7238.2	7448.1	7722.7	7893.6
20°	7445.5	7378.1	7199.3	7049.1	6981.7	7041.3	7204.5	7471.4	7621.6
21°	7183.8	7124.2	6968.8	6841.8	6787.4	6836.7	6986.9	7227.9	7360.0
22°	6911.8	6878.1	6738.2	6632.0	6595.8	6626.8	6764.1	6971.4	7095.8
23°	6644.9	6613.9	6507.6	6419.6	6388.5	6419.6	6541.4	6727.9	6839.3
24°	6375.5	6341.9	6264.2	6207.1	6181.3	6207.1	6310.8	6468.8	6575.0
25°	6067.3	6062.1	6007.7	5976.6	5963.6	5992.1	6064.7	6202.0	6290.0
26°	5771.9	5756.4	5740.8	5735.6	5738.2	5753.8	5813.4	5917.0	5987.0
27°	5409.2	5432.6	5455.8	5487.0	5497.3	5510.3	5538.8	5613.9	5665.7
28°	5062.1	5106.1	5163.1	5225.3	5253.8	5253.8	5256.4	5297.8	5341.9
29°	4717.6	4764.1	4854.9	4948.1	4987.0	4981.8	4961.0	4979.2	5005.1
30°	4357.4	4417.0	4538.8	4660.6	4717.6	4696.8	4658.0	4639.8	4655.4
31°	4005.1	4064.7	4199.4	4331.5	4406.6	4383.4	4316.0	4303.1	4310.8
32°	3668.3	3727.9	3852.2	3992.1	4077.6	4046.6	3976.6	3955.9	3958.5
33°	3341.9	3388.6	3502.5	3632.1	3702.0	3694.2	3637.2	3611.4	3613.9
34°	3033.6	3072.5	3157.9	3256.5	3323.8	3321.2	3279.7	3282.3	3290.1
35°	2759.0	2779.8	2821.2	2875.6	2917.1	2940.3	2945.5	2966.3	2992.2
37.5°	2085.5	2093.2	2044.0	1989.6	1979.2	2046.6	2163.2	2264.2	2303.1
40°	1445.6	1427.4	1365.3	1269.4	1240.9	1316.1	1463.7	1606.2	1658.0
42.5°	899.0	891.2	852.3	779.8	753.9	797.9	909.3	1018.1	1069.9
45°	536.3	525.9	505.1	476.7	471.5	489.6	546.6	608.8	637.3
47.5°	308.3	305.7	292.7	282.4	279.8	292.7	318.7	354.9	362.7
50°	168.4	165.8	163.2	163.2	163.2	171.0	184.0	194.3	199.5
52.5°	82.9	85.5	82.9	85.5	88.1	93.2	90.6	101.0	101.0
55°	41.5	38.9	44.1	49.3	49.3	49.3	49.3	49.3	46.7
57.5°	31.1	33.7	28.5	31.1	28.5	28.5	25.9	28.5	31.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	20.7	18.1	20.7	23.3	25.9	23.3	18.1	20.7	23.3
62.5°	10.3	10.3	10.3	15.5	23.3	18.1	15.5	12.9	12.9
65°	15.5	10.3	12.9	15.5	12.9	12.9	10.3	12.9	10.3
67.5°	7.8	12.9	7.8	5.2	7.8	10.3	7.8	5.2	5.2
70°	0.0	2.6	2.6	7.8	7.8	7.8	7.8	5.2	5.2
72.5°	2.6	2.6	2.6	5.2	2.6	5.2	2.6	2.6	5.2
75°	0.0	0.0	2.6	2.6	0.0	2.6	0.0	0.0	0.0
77.5°	2.6	0.0	2.6	2.6	0.0	0.0	0.0	2.6	0.0
80°	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	2.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)