

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: P250183

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250183
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 EC8B80950 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7742.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

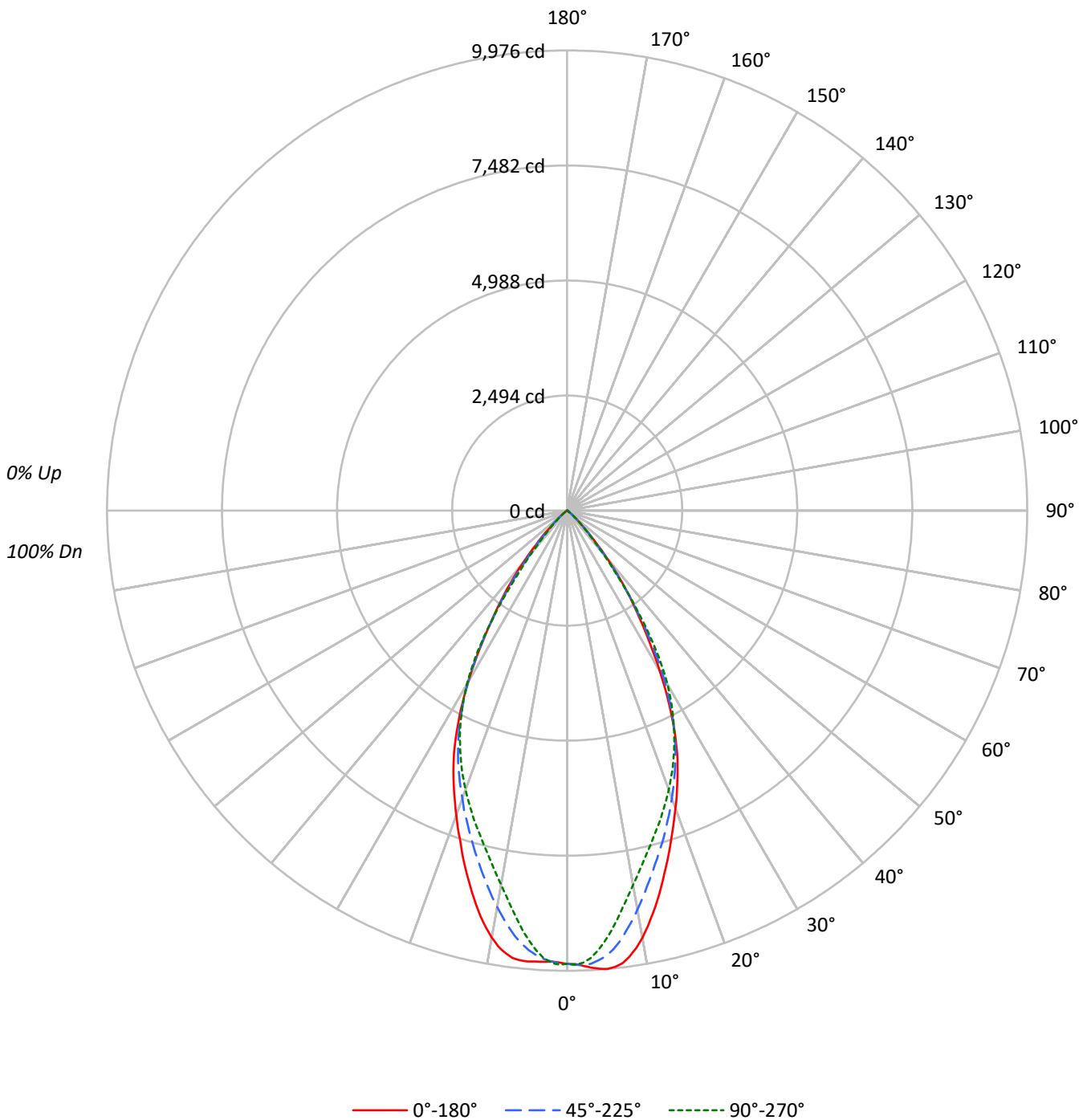
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55				55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52				52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	302976	302976	302976
5°	308792	290083	303762
10°	294411	258058	294336
15°	259974	232749	264399
20°	225294	211262	230626
25°	190355	187102	197343
30°	143068	154893	152849
35°	95771	101255	103864
40°	53659	46059	61540
45°	21565	18961	25629
50°	7445	7220	8822
55°	2054	2441	2312
60°	1178	1474	1326
65°	1043	868	693
70°	0	649	433
75°	0	0	0
80°	0	0	426
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.9	11.5
10°-20°	2157.3	27.9
20°-30°	2528.5	32.7
30°-40°	1663.6	21.5
40°-50°	434.1	5.6
50°-60°	53.4	0.7
60°-70°	11.1	0.1
70°-80°	2.1	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°	5577.7	72.0
0°-40°	7241.3	93.5
0°-60°	7728.8	99.8
0°-90°	7742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7742.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9825	9825	9825	9825	9825	
5°	9976	9692	9371	9565	9813	934
15°	8144	7682	7291	7682	8282	2270
25°	5595	5540	5499	5592	5800	2522
35°	2544	2601	2690	2716	2759	1593
45°	494	466	435	504	588	443
55°	38	41	45	45	43	51
65°	14	12	12	10	10	10
75°	0	2	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°	9825.3	9825.3	9825.3	9825.3	9825.3	9825.3	9825.3	9825.3	9825.3
1°	9832.4	9846.8	9851.5	9865.9	9844.4	9830.1	9811.0	9796.6	9799.0
2°	9875.4	9882.6	9856.3	9846.8	9808.6	9796.6	9782.3	9779.9	9782.3
3°	9920.9	9906.5	9837.2	9772.7	9715.4	9708.2	9734.5	9772.7	9794.2
4°	9956.7	9918.5	9772.7	9653.3	9562.5	9555.4	9660.5	9758.4	9799.0
5°	9975.8	9906.5	9691.5	9490.8	9371.4	9416.8	9564.9	9739.3	9813.3
6°	9949.5	9846.8	9567.3	9299.8	9163.6	9223.3	9440.7	9693.9	9803.8
7°	9882.6	9751.2	9407.2	9091.9	8924.7	9017.8	9295.0	9617.4	9767.9
8°	9758.4	9600.7	9204.2	8850.6	8685.8	8790.9	9115.8	9507.6	9682.0
9°	9595.9	9421.6	9003.5	8630.8	8454.1	8578.3	8929.5	9361.8	9562.5
10°	9402.5	9216.1	8781.4	8401.5	8241.5	8358.5	8728.8	9192.2	9400.1
11°	9175.5	8996.3	8559.2	8186.6	8033.7	8148.3	8528.1	8989.2	9213.7
12°	8929.5	8764.6	8332.3	7978.7	7835.4	7945.3	8313.2	8779.0	9001.1
13°	8683.4	8518.6	8112.5	7778.0	7646.7	7751.7	8102.9	8549.7	8771.8
14°	8418.3	8267.8	7892.7	7586.9	7467.5	7567.8	7887.9	8317.9	8528.1
15°	8143.5	8024.1	7682.5	7403.0	7290.7	7386.3	7682.5	8079.0	8282.1
16°	7885.5	7775.7	7479.4	7221.4	7128.3	7204.7	7474.7	7840.2	8033.7
17°	7622.7	7522.4	7276.4	7042.3	6958.7	7032.7	7262.0	7598.9	7773.3
18°	7360.0	7276.4	7054.3	6853.6	6779.5	6846.4	7051.9	7355.2	7512.9
19°	7116.3	7039.9	6851.2	6681.6	6614.7	6674.4	6867.9	7121.1	7278.8
20°	6865.5	6803.4	6638.6	6500.0	6437.9	6492.8	6643.3	6889.4	7028.0
21°	6624.2	6569.3	6426.0	6308.9	6258.7	6304.2	6442.7	6664.9	6786.7
22°	6373.4	6342.4	6213.4	6115.4	6082.0	6110.6	6237.2	6428.4	6543.0
23°	6127.3	6098.7	6000.7	5919.5	5890.8	5919.5	6031.8	6203.8	6306.5
24°	5878.9	5847.9	5776.2	5723.6	5699.8	5723.6	5819.2	5964.9	6062.9
25°	5594.7	5589.9	5539.7	5511.0	5499.1	5525.4	5592.3	5718.9	5800.1
26°	5322.3	5308.0	5293.7	5288.9	5291.3	5305.6	5360.5	5456.1	5520.6
27°	4987.9	5009.4	5030.9	5059.6	5069.1	5081.1	5107.3	5176.6	5224.4
28°	4667.8	4708.4	4760.9	4818.3	4844.6	4844.6	4846.9	4885.1	4925.8
29°	4350.1	4393.0	4476.7	4562.7	4598.5	4593.7	4574.6	4591.3	4615.2
30°	4018.0	4073.0	4185.3	4297.5	4350.1	4331.0	4295.1	4278.4	4292.7
31°	3693.2	3748.1	3872.3	3994.1	4063.4	4041.9	3979.8	3967.9	3975.0
32°	3382.6	3437.5	3552.2	3681.2	3760.0	3731.4	3666.9	3647.7	3650.1
33°	3081.6	3124.6	3229.7	3349.2	3413.6	3406.5	3353.9	3330.1	3332.4
34°	2797.3	2833.2	2912.0	3002.8	3064.9	3062.5	3024.2	3026.6	3033.8
35°	2544.1	2563.2	2601.4	2651.6	2689.8	2711.3	2716.1	2735.2	2759.1
37.5°	1923.0	1930.2	1884.8	1834.6	1825.1	1887.2	1994.7	2087.9	2123.7
40°	1333.0	1316.3	1258.9	1170.5	1144.2	1213.6	1349.7	1481.1	1528.8
42.5°	828.9	821.8	785.9	719.1	695.2	735.8	838.5	938.8	986.6
45°	494.5	484.9	465.8	439.5	434.8	451.5	504.0	561.4	587.7
47.5°	284.2	281.9	269.9	260.4	258.0	269.9	293.8	327.3	334.5
50°	155.2	152.9	150.5	150.5	150.5	157.6	169.6	179.2	183.9
52.5°	76.5	78.8	76.5	78.8	81.2	86.0	83.6	93.2	93.2
55°	38.2	35.8	40.6	45.4	45.4	45.4	45.4	45.4	43.0
57.5°	28.6	31.0	26.3	28.6	26.3	26.3	23.9	26.3	28.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	19.1	16.7	19.1	21.5	23.9	21.5	16.7	19.1	21.5
62.5°	9.5	9.5	9.5	14.3	21.5	16.7	14.3	11.9	11.9
65°	14.3	9.5	11.9	14.3	11.9	11.9	9.5	11.9	9.5
67.5°	7.2	11.9	7.2	4.8	7.2	9.5	7.2	4.8	4.8
70°	0.0	2.4	2.4	7.2	7.2	7.2	7.2	4.8	4.8
72.5°	2.4	2.4	2.4	4.8	2.4	4.8	2.4	2.4	4.8
75°	0.0	0.0	2.4	2.4	0.0	2.4	0.0	0.0	0.0
77.5°	2.4	0.0	2.4	2.4	0.0	0.0	0.0	2.4	0.0
80°	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	2.4
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)