

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: P250129

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250129
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: LSR8B100D010 EC8B100830 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10491.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

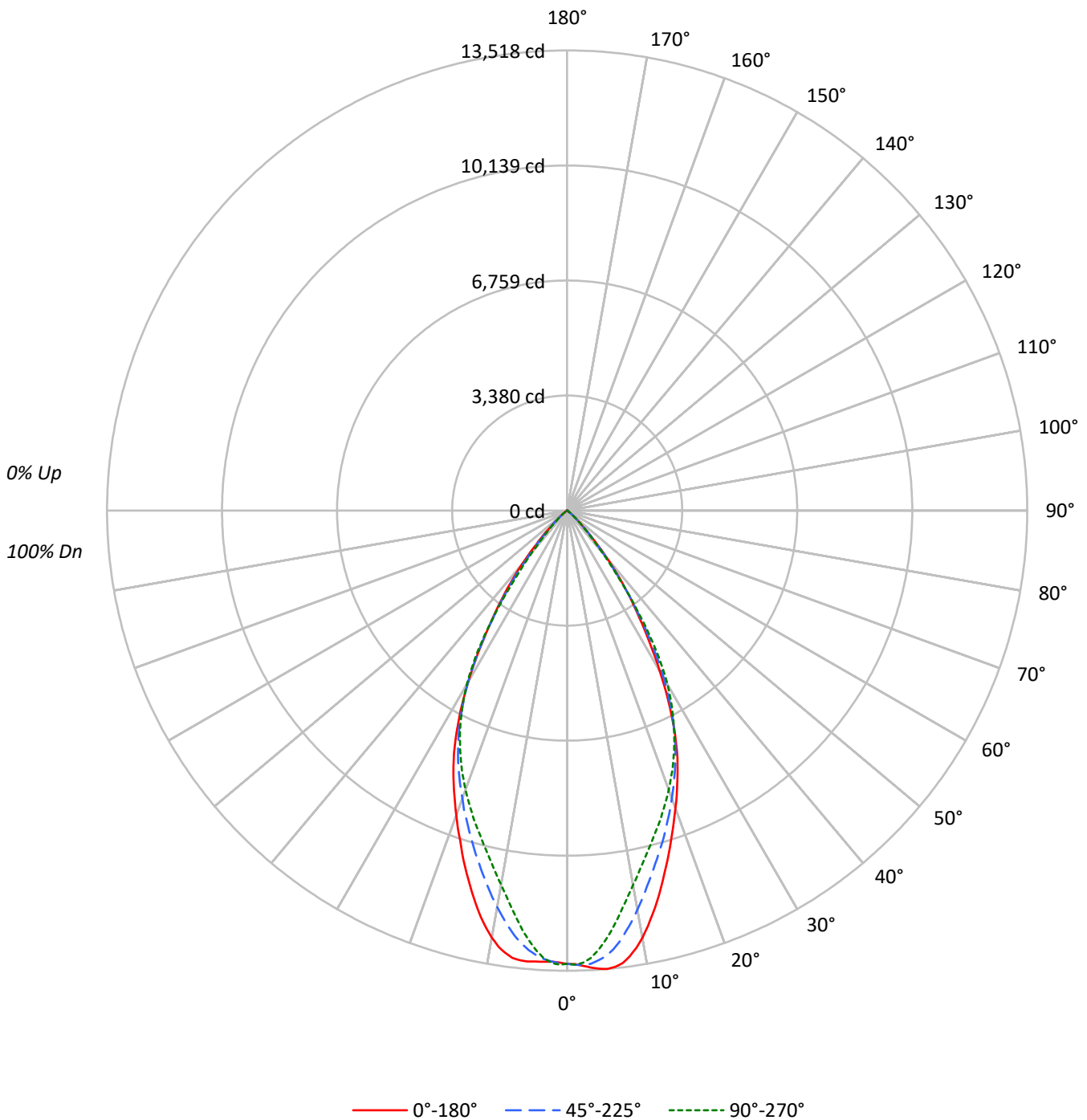
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	410555	410555	410555
5°	418438	393086	411621
10°	398946	349689	398846
15°	352286	315394	358278
20°	305291	286274	312513
25°	257944	253537	267412
30°	193868	209891	207124
35°	129778	137209	140744
40°	72711	62414	83394
45°	29222	25690	34726
50°	10093	9786	11960
55°	2785	3306	3134
60°	1597	1998	1795
65°	1416	1182	941
70°	0	875	586
75°	0	0	0
80°	0	0	568
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1208.7	11.5
10°-20°	2923.3	27.9
20°-30°	3426.2	32.7
30°-40°	2254.3	21.5
40°-50°	588.3	5.6
50°-60°	72.3	0.7
60°-70°	15.0	0.1
70°-80°	2.8	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°	7558.2	72.0
0°-40°	9812.5	93.5
0°-60°	10473.1	99.8
0°-90°	10491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10491.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13314	13314	13314	13314	13314	
5°	13518	13133	12699	12961	13298	###
15°	11035	10410	9880	10410	11223	3076
25°	7581	7507	7452	7578	7860	3418
35°	3448	3525	3645	3680	3739	2159
45°	670	631	589	683	796	601
55°	52	55	62	62	58	69
65°	19	16	16	13	13	14
75°	0	3	0	0	0	2
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°	13314.0	13314.0	13314.0	13314.0	13314.0	13314.0	13314.0	13314.0	13314.0
1°	13323.7	13343.2	13349.6	13369.1	13339.9	13320.5	13294.6	13275.1	13278.4
2°	13382.0	13391.7	13356.1	13343.2	13291.4	13275.1	13255.7	13252.5	13255.7
3°	13443.5	13424.0	13330.2	13242.8	13165.1	13155.4	13191.0	13242.8	13271.9
4°	13492.1	13440.3	13242.8	13080.9	12957.9	12948.2	13090.7	13223.3	13278.4
5°	13518.0	13424.0	13132.7	12860.8	12699.0	12760.4	12961.2	13197.4	13297.8
6°	13482.3	13343.2	12964.4	12601.9	12417.3	12498.3	12792.8	13136.0	13284.9
7°	13391.7	13213.7	12747.5	12320.2	12093.6	12219.9	12595.4	13032.4	13236.3
8°	13223.3	13009.7	12472.4	11993.3	11769.9	11912.3	12352.6	12883.5	13119.8
9°	13003.2	12766.9	12200.5	11695.5	11455.9	11624.2	12100.1	12686.0	12957.9
10°	12741.0	12488.5	11899.4	11384.7	11167.9	11326.4	11828.2	12456.1	12737.8
11°	12433.5	12190.7	11598.3	11093.4	10886.2	11041.6	11556.3	12181.1	12485.3
12°	12100.1	11876.8	11290.9	10811.8	10617.5	10766.5	11265.0	11896.2	12197.2
13°	11766.7	11543.3	10993.1	10539.8	10361.8	10504.2	10980.1	11585.4	11886.4
14°	11407.4	11203.4	10695.2	10280.8	10119.0	10254.9	10688.8	11271.4	11556.3
15°	11035.1	10873.2	10410.3	10031.6	9879.5	10008.9	10410.3	10947.7	11222.8
16°	10685.5	10536.6	10135.2	9785.6	9659.4	9762.9	10128.8	10624.0	10886.2
17°	10329.4	10193.5	9860.0	9542.8	9429.5	9529.9	9840.6	10297.1	10533.4
18°	9973.4	9860.0	9559.0	9287.1	9186.8	9277.4	9555.8	9966.9	10180.5
19°	9643.2	9539.6	9283.9	9054.0	8963.4	9044.3	9306.5	9649.7	9863.3
20°	9303.3	9219.1	8995.7	8808.0	8723.8	8798.3	9002.2	9335.7	9523.4
21°	8976.3	8901.9	8707.7	8549.0	8481.1	8542.6	8730.3	9031.4	9196.4
22°	8636.5	8594.4	8419.6	8286.9	8241.5	8280.4	8451.9	8710.9	8866.3
23°	8303.0	8264.2	8131.5	8021.4	7982.5	8021.4	8173.6	8406.6	8545.9
24°	7966.4	7924.3	7827.2	7755.9	7723.6	7755.9	7885.4	8082.9	8215.6
25°	7581.2	7574.7	7506.8	7467.9	7451.7	7487.3	7578.0	7749.5	7859.5
26°	7212.1	7192.7	7173.3	7166.8	7170.1	7189.5	7263.9	7393.4	7480.9
27°	6759.0	6788.1	6817.2	6856.1	6869.0	6885.2	6920.8	7014.7	7079.4
28°	6325.2	6380.2	6451.4	6529.1	6564.8	6564.8	6567.9	6619.7	6674.8
29°	5894.7	5952.9	6066.3	6182.8	6231.3	6224.8	6198.9	6221.6	6254.0
30°	5444.7	5519.2	5671.3	5823.5	5894.7	5868.8	5820.2	5797.6	5817.0
31°	5004.5	5079.0	5247.3	5412.3	5506.2	5477.1	5392.9	5376.8	5386.4
32°	4583.7	4658.1	4813.5	4988.3	5095.1	5056.3	4968.9	4943.0	4946.2
33°	4175.8	4234.1	4376.5	4538.4	4625.7	4616.0	4544.8	4512.5	4515.7
34°	3790.6	3839.2	3945.9	4069.0	4153.1	4149.9	4098.1	4101.3	4111.1
35°	3447.5	3473.4	3525.1	3593.1	3644.9	3674.0	3680.5	3706.4	3738.8
37.5°	2605.9	2615.5	2554.1	2486.0	2473.1	2557.3	2703.0	2829.2	2877.8
40°	1806.3	1783.6	1705.9	1586.2	1550.5	1644.5	1828.9	2007.0	2071.7
42.5°	1123.3	1113.5	1065.0	974.4	942.0	997.0	1136.2	1272.2	1336.9
45°	670.1	657.1	631.2	595.6	589.1	611.8	683.0	760.7	796.3
47.5°	385.2	382.0	365.8	352.9	349.6	365.8	398.2	443.5	453.2
50°	210.4	207.2	204.0	204.0	204.0	213.6	229.9	242.8	249.3
52.5°	103.6	106.8	103.6	106.8	110.1	116.5	113.3	126.3	126.3
55°	51.8	48.6	55.0	61.5	61.5	61.5	61.5	61.5	58.3
57.5°	38.8	42.1	35.6	38.8	35.6	35.6	32.4	35.6	38.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	25.9	22.7	25.9	29.1	32.4	29.1	22.7	25.9	29.1
62.5°	12.9	12.9	12.9	19.4	29.1	22.7	19.4	16.2	16.2
65°	19.4	12.9	16.2	19.4	16.2	16.2	12.9	16.2	12.9
67.5°	9.7	16.2	9.7	6.5	9.7	12.9	9.7	6.5	6.5
70°	0.0	3.2	3.2	9.7	9.7	9.7	9.7	6.5	6.5
72.5°	3.2	3.2	3.2	6.5	3.2	6.5	3.2	3.2	6.5
75°	0.0	0.0	3.2	3.2	0.0	3.2	0.0	0.0	0.0
77.5°	3.2	0.0	3.2	3.2	0.0	0.0	0.0	3.2	0.0
80°	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	3.2
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)