

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: P250150

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250150
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 EC8B100850 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11051.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

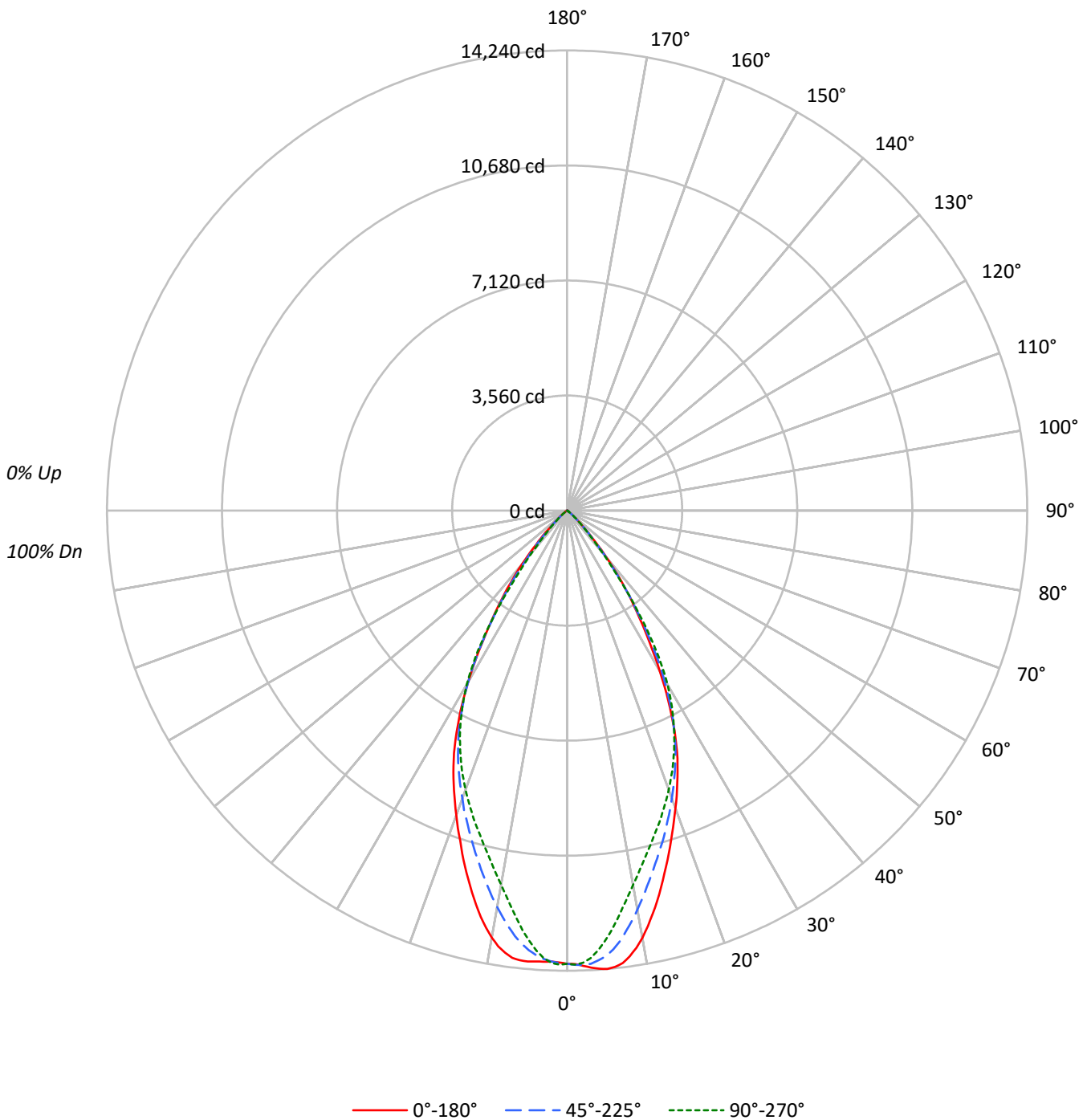
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	432470	432470	432470
5°	440771	414067	433593
10°	420242	368355	420135
15°	371092	332231	377404
20°	321587	301556	329197
25°	271713	267072	281689
30°	204219	221093	218180
35°	136705	144535	148258
40°	76591	65747	87846
45°	30779	27064	36579
50°	10631	10305	12598
55°	2935	3484	3301
60°	1684	2103	1893
65°	1488	1240	992
70°	0	929	613
75°	0	0	0
80°	0	0	604
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1273.2	11.5
10°-20°	3079.3	27.9
20°-30°	3609.1	32.7
30°-40°	2374.6	21.5
40°-50°	619.7	5.6
50°-60°	76.2	0.7
60°-70°	15.8	0.1
70°-80°	2.9	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°	7961.7	72.0
0°-40°	10336.3	93.5
0°-60°	11032.1	99.8
0°-90°	11051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11051.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14025	14025	14025	14025	14025	
5°	14240	13834	13377	13653	14008	###
15°	11624	10966	10407	10966	11822	3240
25°	7986	7908	7850	7982	8279	3600
35°	3632	3713	3840	3877	3938	2274
45°	706	665	621	719	839	633
55°	55	58	65	65	61	72
65°	20	17	17	14	14	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°	14024.7	14024.7	14024.7	14024.7	14024.7	14024.7	14024.7	14024.7	14024.7
1°	14034.9	14055.4	14062.2	14082.7	14052.0	14031.5	14004.3	13983.7	13987.2
2°	14096.3	14106.6	14069.0	14055.4	14000.8	13983.7	13963.3	13959.9	13963.3
3°	14161.1	14140.6	14041.7	13949.7	13867.8	13857.6	13895.1	13949.7	13980.3
4°	14212.3	14157.7	13949.7	13779.2	13649.6	13639.4	13789.4	13929.2	13987.2
5°	14239.5	14140.6	13833.7	13547.3	13376.8	13441.6	13653.0	13901.9	14007.6
6°	14202.0	14055.4	13656.4	13274.6	13080.2	13165.4	13475.7	13837.1	13994.0
7°	14106.6	13919.0	13428.0	12977.9	12739.2	12872.2	13267.7	13728.0	13942.9
8°	13929.2	13704.2	13138.1	12633.5	12398.2	12548.2	13012.0	13571.2	13820.1
9°	13697.3	13448.4	12851.7	12319.7	12067.4	12244.7	12746.0	13363.2	13649.6
10°	13421.1	13155.2	12534.6	11992.4	11764.0	11931.0	12459.6	13121.0	13417.7
11°	13097.2	12841.5	12217.5	11685.6	11467.3	11631.0	12173.2	12831.3	13151.7
12°	12746.0	12510.7	11893.6	11388.9	11184.3	11341.2	11866.3	12531.2	12848.3
13°	12394.8	12159.5	11579.9	11102.5	10914.9	11064.9	11566.2	12203.9	12520.9
14°	12016.3	11801.5	11266.2	10829.6	10659.2	10802.3	11259.3	11873.0	12173.2
15°	11624.2	11453.6	10966.0	10567.1	10406.9	10543.2	10966.0	11532.1	11821.9
16°	11255.9	11099.0	10676.2	10307.9	10175.0	10284.1	10669.4	11191.1	11467.3
17°	10880.8	10737.6	10386.4	10052.2	9932.9	10038.6	10365.9	10846.7	11095.6
18°	10505.7	10386.4	10069.3	9782.9	9677.2	9772.6	10065.9	10498.9	10723.9
19°	10157.9	10048.8	9779.5	9537.3	9441.9	9527.1	9803.3	10164.8	10389.8
20°	9799.9	9711.2	9475.9	9278.2	9189.5	9267.9	9482.8	9834.0	10031.8
21°	9455.5	9377.1	9172.5	9005.4	8933.8	8998.6	9196.3	9513.5	9687.3
22°	9097.5	9053.2	8869.0	8729.2	8681.5	8722.4	8903.1	9175.9	9339.6
23°	8746.2	8705.3	8565.5	8449.6	8408.7	8449.6	8609.9	8855.4	9002.0
24°	8391.6	8347.3	8245.0	8169.9	8135.9	8169.9	8306.4	8514.4	8654.2
25°	7985.9	7979.1	7907.5	7866.5	7849.5	7886.9	7982.5	8163.2	8279.1
26°	7597.1	7576.7	7556.2	7549.4	7552.8	7573.2	7651.7	7788.1	7880.2
27°	7119.8	7150.5	7181.1	7222.1	7235.7	7252.8	7290.2	7389.1	7457.3
28°	6662.8	6720.8	6795.8	6877.6	6915.2	6915.2	6918.5	6973.1	7031.1
29°	6209.3	6270.7	6390.1	6512.8	6563.9	6557.1	6529.8	6553.7	6587.8
30°	5735.4	5813.8	5974.1	6134.3	6209.3	6182.1	6130.9	6107.1	6127.5
31°	5271.6	5350.1	5527.4	5701.2	5800.1	5769.5	5680.8	5663.8	5674.0
32°	4828.4	4906.8	5070.4	5254.5	5367.1	5326.2	5234.1	5206.8	5210.2
33°	4398.7	4460.1	4610.1	4780.6	4872.7	4862.4	4787.4	4753.4	4756.7
34°	3992.9	4044.1	4156.6	4286.2	4374.8	4371.4	4316.8	4320.3	4330.5
35°	3631.5	3658.8	3713.3	3784.9	3839.5	3870.1	3877.0	3904.3	3938.4
37.5°	2745.0	2755.1	2690.4	2618.7	2605.1	2693.8	2847.2	2980.2	3031.4
40°	1902.7	1878.8	1797.0	1670.8	1633.3	1732.2	1926.6	2114.1	2182.3
42.5°	1183.2	1173.0	1121.8	1026.4	992.3	1050.3	1196.8	1340.1	1408.3
45°	705.8	692.2	664.9	627.4	620.6	644.4	719.4	801.3	838.8
47.5°	405.7	402.4	385.3	371.7	368.3	385.3	419.4	467.1	477.4
50°	221.6	218.3	214.8	214.8	214.8	225.0	242.1	255.7	262.6
52.5°	109.1	112.6	109.1	112.6	116.0	122.7	119.3	133.0	133.0
55°	54.6	51.1	58.0	64.8	64.8	64.8	64.8	64.8	61.4
57.5°	40.9	44.3	37.5	40.9	37.5	37.5	34.1	37.5	40.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	27.3	23.9	27.3	30.7	34.1	30.7	23.9	27.3	30.7
62.5°	13.6	13.6	13.6	20.4	30.7	23.9	20.4	17.0	17.0
65°	20.4	13.6	17.0	20.4	17.0	17.0	13.6	17.0	13.6
67.5°	10.3	17.0	10.3	6.8	10.3	13.6	10.3	6.8	6.8
70°	0.0	3.4	3.4	10.3	10.3	10.3	10.3	6.8	6.8
72.5°	3.4	3.4	3.4	6.8	3.4	6.8	3.4	3.4	6.8
75°	0.0	0.0	3.4	3.4	0.0	3.4	0.0	0.0	0.0
77.5°	3.4	0.0	3.4	3.4	0.0	0.0	0.0	3.4	0.0
80°	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4
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)