

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: P247420

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247420
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 EC8B100950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10427.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

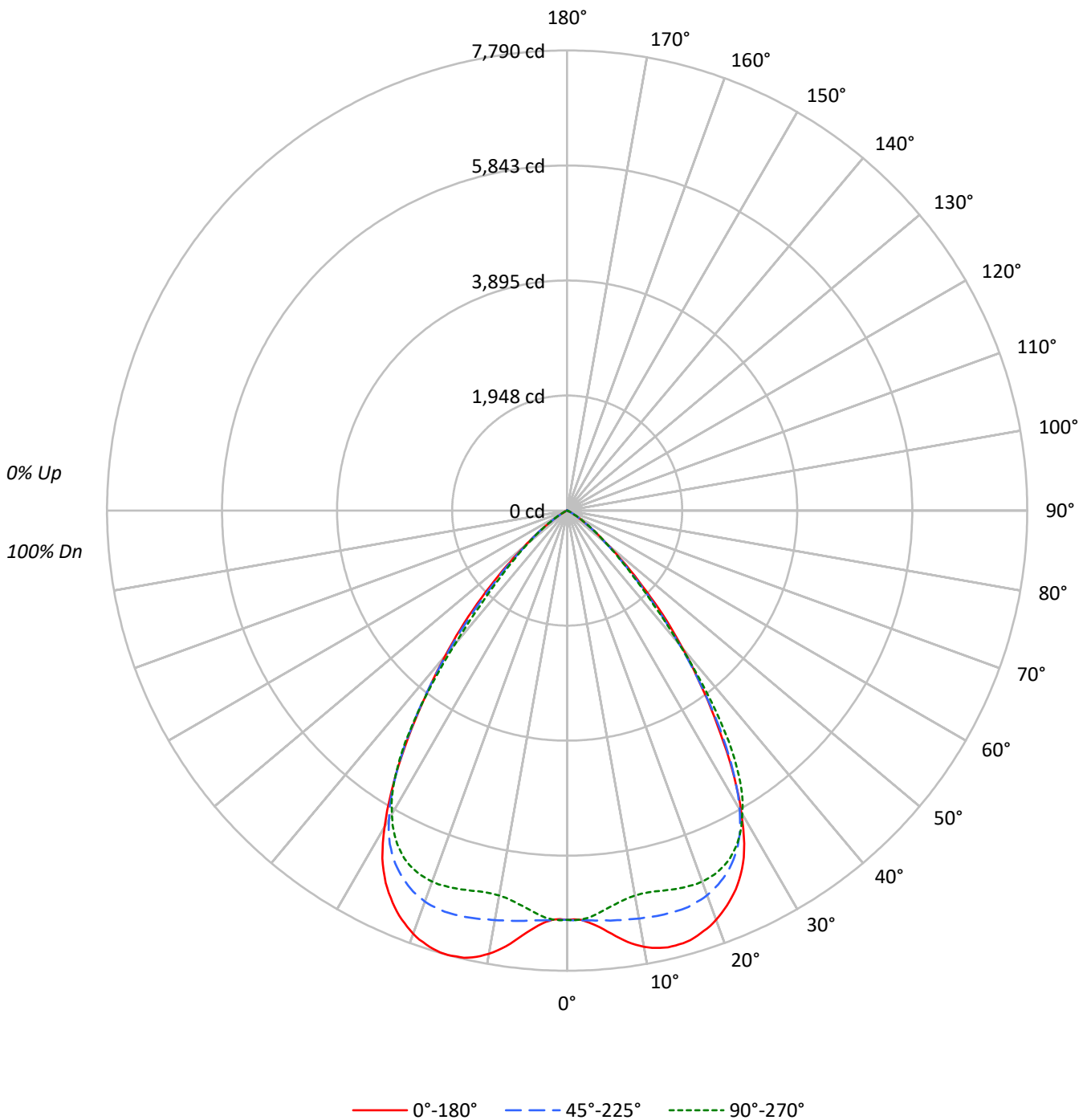
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	95	94	92		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	90	88	86	84		
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	83	79	84	81	78	
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76	76	76	74	72	78	74	71	
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70	70	70	66	73	69	65	64	
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	60	68	63	60	58	
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	55	63	59	55	53	
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	51	59	54	51	49	
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	47	55	50	47	45	
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45	45	45	43	51	47	44	42	
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42	42	42	40	48	44	41	39	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	213720	213720	213720
5°	220282	210711	220644
10°	234812	207157	238500
15°	242036	212238	248705
20°	242029	219324	250240
25°	234617	221391	243031
30°	209987	211244	220053
35°	167249	179774	176563
40°	122195	118874	129183
45°	78065	69591	84872
50°	42230	41381	45344
55°	21682	22478	21682
60°	9442	9442	6901
65°	1934	2583	2145
70°	1325	1857	2119
75°	0	1048	0
80°	515	515	2095
85°	0	1026	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.1	6.4
10°-20°	2010.0	19.3
20°-30°	3059.3	29.3
30°-40°	2847.0	27.3
40°-50°	1385.7	13.3
50°-60°	394.8	3.8
60°-70°	51.6	0.5
70°-80°	8.2	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°	5737.3	55.0
0°-40°	8584.3	82.3
0°-60°	10364.8	99.4
0°-90°	10427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10427.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6931	6931	6931	6931	6931	
5°	7116	6960	6807	6966	7128	693
15°	7582	7031	6648	7099	7790	2133
25°	6896	6595	6507	6740	7143	3130
35°	4443	4505	4776	4726	4690	2762
45°	1790	1658	1596	1787	1946	1415
55°	403	403	418	409	403	396
65°	26	32	35	32	29	51
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°	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8	6930.8
1°	6922.0	6930.8	6936.8	6933.9	6936.8	6933.9	6927.9	6916.2	6916.2
2°	6933.9	6945.6	6942.6	6936.8	6927.9	6927.9	6945.6	6922.0	6927.9
3°	6980.9	6980.9	6945.6	6913.3	6901.4	6913.3	6942.6	6960.3	6975.1
4°	7039.8	7028.0	6957.4	6883.8	6860.2	6889.6	6954.5	7010.3	7039.8
5°	7116.4	7081.0	6960.3	6848.4	6807.2	6851.3	6966.2	7072.1	7128.1
6°	7204.7	7151.6	6978.0	6810.1	6757.2	6819.0	6983.9	7145.8	7231.1
7°	7293.1	7207.6	6986.8	6780.7	6712.9	6798.4	6998.6	7228.2	7340.1
8°	7375.5	7260.6	6995.7	6754.3	6671.7	6760.1	7010.3	7301.8	7449.0
9°	7443.2	7310.6	7001.5	6733.7	6636.5	6736.6	7025.1	7366.6	7540.3
10°	7499.1	7348.9	7013.4	6721.8	6615.9	6724.8	7039.8	7422.6	7616.9
11°	7543.3	7375.5	7016.3	6716.0	6607.0	6716.0	7051.5	7478.5	7681.7
12°	7569.7	7399.0	7025.1	6718.9	6609.9	6724.8	7069.2	7502.1	7734.7
13°	7587.4	7407.8	7030.9	6727.7	6615.9	6730.6	7081.0	7522.7	7769.9
14°	7587.4	7402.0	7030.9	6736.6	6633.5	6742.4	7089.8	7537.4	7778.8
15°	7581.6	7399.0	7030.9	6751.2	6648.2	6754.3	7098.7	7546.2	7790.5
16°	7563.9	7381.3	7028.0	6760.1	6662.9	6766.0	7101.6	7540.3	7781.8
17°	7528.5	7372.6	7016.3	6768.9	6677.7	6777.8	7101.6	7525.6	7761.1
18°	7481.4	7310.6	6986.8	6760.1	6680.6	6774.9	7084.0	7487.3	7722.9
19°	7440.2	7275.4	6966.2	6754.3	6692.3	6783.7	7072.1	7460.8	7681.7
20°	7375.5	7216.5	6930.8	6736.6	6683.6	6766.0	7042.8	7413.8	7625.7
21°	7296.0	7148.7	6880.8	6707.1	6668.8	6742.4	7001.5	7348.9	7549.1
22°	7216.5	7072.1	6827.8	6677.7	6645.3	6721.8	6957.4	7281.2	7469.6
23°	7122.2	6986.8	6760.1	6627.6	6609.9	6674.8	6895.6	7207.6	7375.5
24°	7016.3	6886.7	6686.5	6571.6	6565.8	6624.7	6824.9	7110.4	7263.6
25°	6895.6	6780.7	6595.3	6501.0	6506.9	6557.0	6739.5	7001.5	7142.9
26°	6751.2	6645.3	6489.2	6415.7	6424.5	6474.5	6642.3	6875.0	7010.3
27°	6589.3	6492.1	6365.6	6312.5	6336.2	6380.3	6524.6	6736.6	6845.5
28°	6386.2	6309.6	6218.4	6194.8	6224.3	6274.3	6395.0	6568.7	6665.9
29°	6150.6	6109.4	6038.8	6050.5	6091.7	6132.9	6233.0	6359.7	6436.3
30°	5897.4	5879.8	5838.5	5885.7	5932.7	5968.1	6035.8	6121.2	6180.1
31°	5638.3	5617.7	5623.6	5700.1	5770.8	5794.3	5832.6	5873.8	5918.0
32°	5346.9	5340.9	5364.5	5476.4	5567.7	5579.4	5582.4	5594.1	5617.7
33°	5049.5	5040.6	5087.8	5226.2	5329.2	5338.0	5314.4	5302.6	5320.3
34°	4740.3	4740.3	4802.1	4946.5	5067.2	5075.9	5028.9	5022.9	5005.2
35°	4442.9	4434.1	4504.7	4640.2	4775.6	4778.6	4725.5	4693.2	4690.3
37.5°	3706.8	3692.2	3715.7	3786.3	3886.4	3939.5	3933.6	3921.8	3913.0
40°	3035.6	3000.3	2953.1	2923.7	2953.1	3062.1	3156.3	3200.5	3209.2
42.5°	2402.6	2352.5	2252.4	2169.9	2181.8	2281.9	2426.1	2526.2	2576.2
45°	1790.1	1740.0	1657.6	1595.8	1595.8	1666.5	1787.2	1890.2	1946.2
47.5°	1277.8	1245.5	1198.3	1171.8	1189.5	1218.9	1286.7	1363.3	1386.8
50°	880.3	871.5	845.1	845.1	862.6	886.3	898.0	936.3	945.2
52.5°	615.4	600.6	603.5	606.6	621.2	624.2	641.8	633.0	647.8
55°	403.3	403.3	403.3	412.2	418.1	418.1	409.3	403.3	403.3
57.5°	256.2	250.3	253.2	259.1	259.1	250.3	235.6	232.6	217.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	153.1	153.1	156.1	156.1	153.1	144.2	129.6	117.8	111.9
62.5°	79.5	82.4	82.4	97.2	82.4	73.6	67.7	53.0	50.1
65°	26.5	32.4	32.4	32.4	35.4	32.4	32.4	29.4	29.4
67.5°	17.7	20.6	20.6	23.5	23.5	23.5	23.5	29.4	20.6
70°	14.7	14.7	17.7	20.6	20.6	23.5	17.7	14.7	23.5
72.5°	8.8	11.8	8.8	14.7	11.8	11.8	11.8	11.8	11.8
75°	0.0	5.9	2.9	0.0	8.8	5.9	2.9	5.9	0.0
77.5°	2.9	2.9	2.9	2.9	5.9	5.9	5.9	5.9	2.9
80°	2.9	2.9	5.9	2.9	2.9	5.9	0.0	0.0	11.8
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	0.0	2.9	2.9
85°	0.0	2.9	2.9	2.9	2.9	2.9	5.9	5.9	0.0
87.5°	0.0	2.9	0.0	2.9	0.0	0.0	0.0	5.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)