

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: P250185

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250185
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 EC8B100950 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: 10061.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

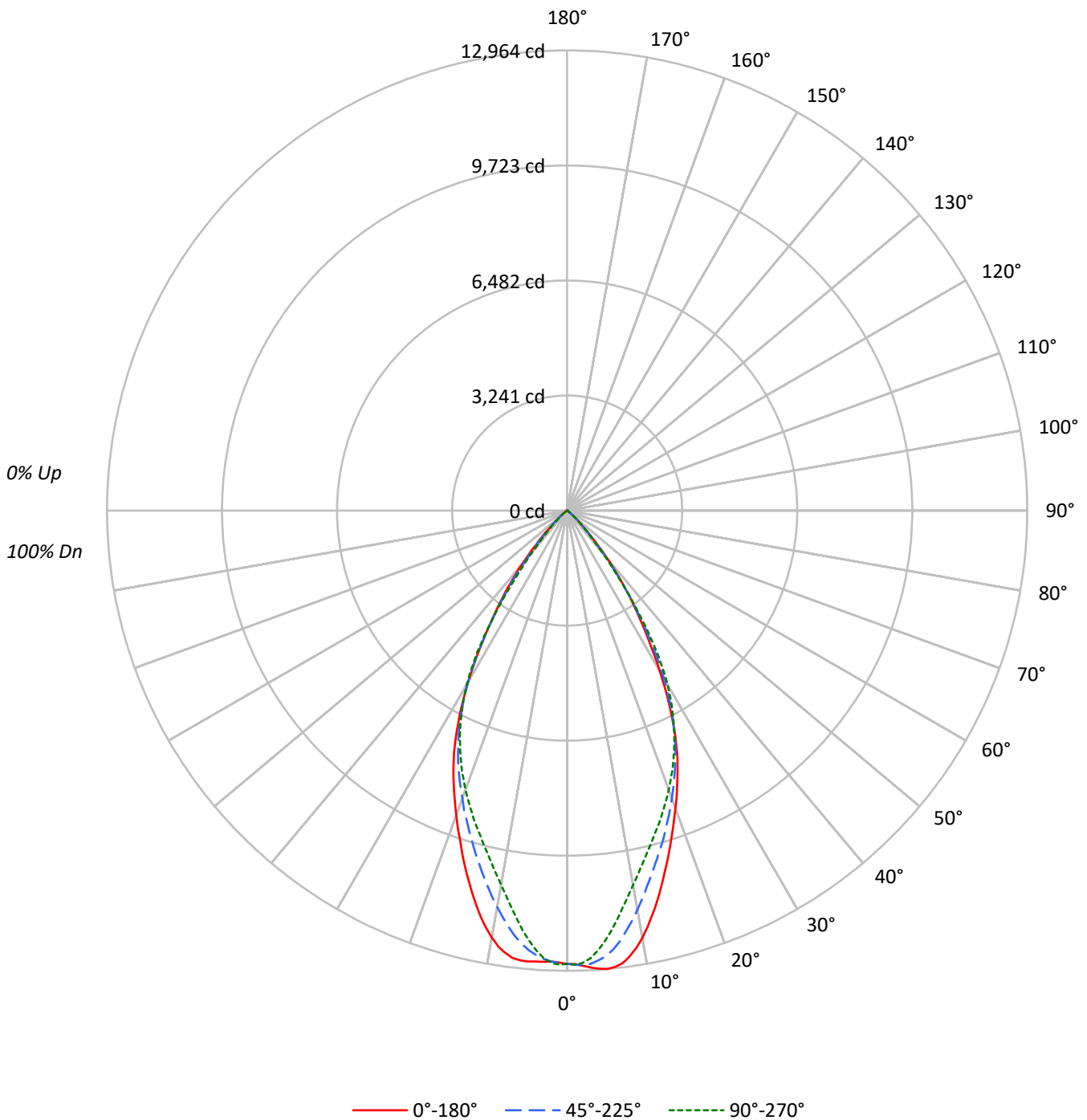
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	393727	393727	393727
5°	401286	376975	394748
10°	382595	335355	382498
15°	337846	302468	343593
20°	292778	274543	299706
25°	247372	243146	256453
30°	185924	201288	198636
35°	124459	131589	134977
40°	69728	59858	79977
45°	28023	24639	33304
50°	9676	9383	11465
55°	2672	3172	3005
60°	1529	1918	1727
65°	1357	1131	905
70°	0	838	559
75°	0	0	0
80°	0	0	550
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.1	11.5
10°-20°	2803.5	27.9
20°-30°	3285.8	32.7
30°-40°	2161.9	21.5
40°-50°	564.1	5.6
50°-60°	69.4	0.7
60°-70°	14.4	0.1
70°-80°	2.7	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°	7248.4	72.0
0°-40°	9410.3	93.5
0°-60°	10043.8	99.8
0°-90°	10061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10061.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12768	12768	12768	12768	12768	
5°	12964	12594	12178	12430	12753	###
15°	10583	9984	9475	9984	10763	2950
25°	7270	7199	7146	7267	7537	3278
35°	3306	3381	3496	3530	3586	2070
45°	643	605	565	655	764	576
55°	50	53	59	59	56	66
65°	19	16	16	12	12	13
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°	12768.3	12768.3	12768.3	12768.3	12768.3	12768.3	12768.3	12768.3	12768.3
1°	12777.6	12796.3	12802.4	12821.1	12793.1	12774.5	12749.7	12731.0	12734.1
2°	12833.5	12842.8	12808.6	12796.3	12746.6	12731.0	12712.4	12709.3	12712.4
3°	12892.5	12873.8	12783.8	12700.0	12625.5	12616.2	12650.3	12700.0	12727.9
4°	12939.1	12889.4	12700.0	12544.8	12426.8	12417.5	12554.1	12681.3	12734.1
5°	12963.9	12873.8	12594.4	12333.7	12178.5	12237.4	12429.9	12656.5	12752.7
6°	12929.7	12796.3	12433.0	12085.4	11908.4	11986.0	12268.5	12597.6	12740.4
7°	12842.8	12672.1	12225.0	11815.3	11597.9	11719.0	12079.1	12498.2	12693.8
8°	12681.3	12476.5	11961.2	11501.7	11287.5	11424.1	11846.3	12355.4	12582.1
9°	12470.2	12243.7	11700.4	11216.1	10986.4	11147.8	11604.2	12166.0	12426.8
10°	12218.8	11976.7	11411.7	10918.1	10710.1	10862.2	11343.4	11945.6	12215.7
11°	11923.9	11691.1	11123.0	10638.7	10440.0	10589.0	11082.6	11681.8	11973.6
12°	11604.2	11390.0	10828.1	10368.6	10182.4	10325.2	10803.2	11408.6	11697.3
13°	11284.4	11070.2	10542.5	10107.8	9937.1	10073.7	10530.0	11110.6	11399.2
14°	10939.8	10744.2	10256.9	9859.5	9704.3	9834.6	10250.6	10809.4	11082.6
15°	10582.8	10427.6	9983.7	9620.4	9474.6	9598.7	9983.7	10499.0	10762.8
16°	10247.5	10104.7	9719.8	9384.5	9263.5	9362.8	9713.6	10188.6	10440.0
17°	9906.0	9775.7	9455.9	9151.7	9043.1	9139.3	9437.3	9875.0	10101.6
18°	9564.6	9455.9	9167.2	8906.5	8810.2	8897.1	9164.1	9558.4	9763.2
19°	9247.9	9148.6	8903.4	8682.9	8596.0	8673.6	8925.1	9254.1	9459.0
20°	8922.0	8841.2	8627.0	8447.0	8366.3	8437.7	8633.3	8953.0	9133.1
21°	8608.4	8537.0	8350.8	8198.6	8133.4	8192.5	8372.5	8661.2	8819.5
22°	8282.5	8242.1	8074.5	7947.2	7903.7	7941.0	8105.5	8353.9	8502.9
23°	7962.7	7925.5	7798.2	7692.7	7655.4	7692.7	7838.6	8062.0	8195.6
24°	7639.9	7599.5	7506.4	7438.0	7407.1	7438.0	7562.2	7751.6	7878.9
25°	7270.5	7264.3	7199.1	7161.8	7146.3	7180.4	7267.4	7431.9	7537.4
26°	6916.5	6897.9	6879.3	6873.1	6876.2	6894.8	6966.2	7090.4	7174.2
27°	6481.9	6509.9	6537.8	6575.1	6587.5	6603.0	6637.1	6727.1	6789.3
28°	6065.9	6118.7	6187.0	6261.5	6295.7	6295.7	6298.7	6348.4	6401.2
29°	5653.1	5708.9	5817.6	5929.3	5975.9	5969.7	5944.8	5966.6	5997.6
30°	5221.6	5293.0	5438.9	5584.8	5653.1	5628.2	5581.7	5560.0	5578.6
31°	4799.4	4870.8	5032.2	5190.5	5280.5	5252.6	5171.9	5156.4	5165.7
32°	4395.8	4467.2	4616.2	4783.8	4886.3	4849.1	4765.2	4740.4	4743.5
33°	4004.6	4060.5	4197.1	4352.4	4436.2	4426.8	4358.5	4327.5	4330.6
34°	3635.2	3681.8	3784.2	3902.2	3982.9	3979.8	3930.1	3933.2	3942.6
35°	3306.2	3331.0	3380.6	3445.9	3495.6	3523.4	3529.7	3554.5	3585.6
37.5°	2499.0	2508.3	2449.4	2384.1	2371.7	2452.5	2592.2	2713.2	2759.8
40°	1732.2	1710.5	1636.0	1521.2	1487.0	1577.1	1754.0	1924.7	1986.8
42.5°	1077.2	1067.9	1021.3	934.4	903.4	956.2	1089.6	1220.0	1282.1
45°	642.6	630.2	605.3	571.2	565.0	586.7	655.0	729.5	763.7
47.5°	369.4	366.3	350.8	338.4	335.3	350.8	381.8	425.3	434.6
50°	201.7	198.7	195.6	195.6	195.6	204.9	220.4	232.8	239.0
52.5°	99.4	102.5	99.4	102.5	105.6	111.7	108.6	121.1	121.1
55°	49.7	46.6	52.8	59.0	59.0	59.0	59.0	59.0	55.9
57.5°	37.2	40.3	34.2	37.2	34.2	34.2	31.1	34.2	37.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	24.8	21.7	24.8	28.0	31.1	28.0	21.7	24.8	28.0
62.5°	12.4	12.4	12.4	18.6	28.0	21.7	18.6	15.5	15.5
65°	18.6	12.4	15.5	18.6	15.5	15.5	12.4	15.5	12.4
67.5°	9.3	15.5	9.3	6.2	9.3	12.4	9.3	6.2	6.2
70°	0.0	3.1	3.1	9.3	9.3	9.3	9.3	6.2	6.2
72.5°	3.1	3.1	3.1	6.2	3.1	6.2	3.1	3.1	6.2
75°	0.0	0.0	3.1	3.1	0.0	3.1	0.0	0.0	0.0
77.5°	3.1	0.0	3.1	3.1	0.0	0.0	0.0	3.1	0.0
80°	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	3.1
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)