

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: P250738

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100850 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10994.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

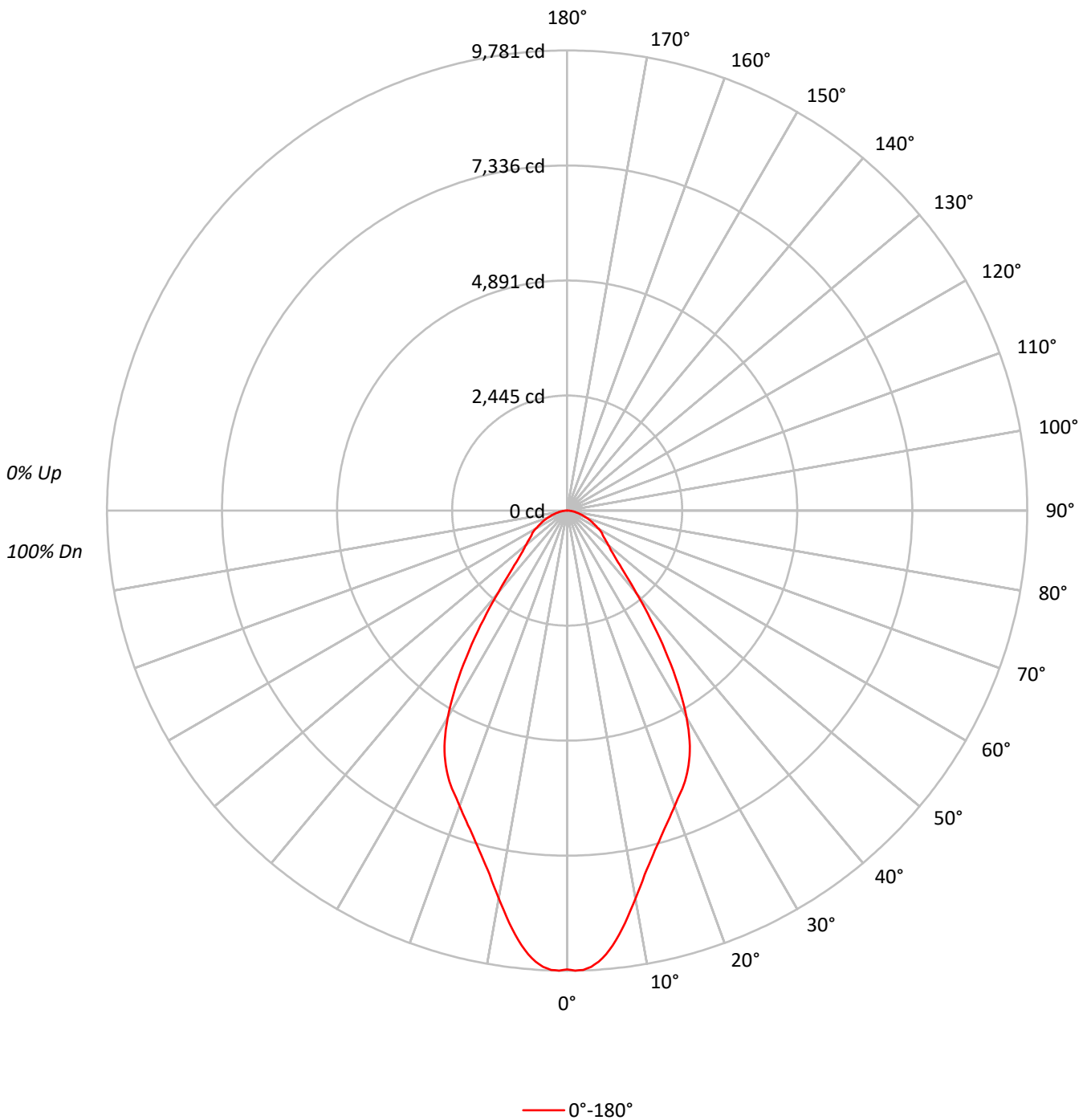
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	300722
5°	293108
10°	262038
15°	235479
20°	219298
25°	206598
30°	180644
35°	136859
40°	91932
45°	64777
50°	54934
55°	50106
60°	47469
65°	42706
70°	38426
75°	34480
80°	30508
85°	29260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.7	7.9
10°-20°	2080.2	18.9
20°-30°	2756.7	25.1
30°-40°	2260.5	20.6
40°-50°	1203.9	11.0
50°-60°	847.4	7.7
60°-70°	584.3	5.3
70°-80°	304.3	2.8
80°-90°	90.0	0.8
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°	5703.6	51.9
0°-40°	7964.1	72.4
0°-60°	10015.4	91.1
0°-90°	10994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10994.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9752	
5°	9469	867
15°	7376	2080
25°	6072	2757
35°	3636	2260
45°	1485	1204
55°	932	847
65°	585	584
75°	289	304
85°	83	90
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9752.2
1°	9780.9
2°	9768.1
3°	9710.8
4°	9612.3
5°	9469.1
6°	9291.0
7°	9077.9
8°	8848.9
9°	8604.0
10°	8368.6
11°	8142.8
12°	7913.7
13°	7722.9
14°	7541.6
15°	7376.2
16°	7220.3
17°	7077.2
18°	6943.6
19°	6810.0
20°	6682.8
21°	6558.7
22°	6450.6
23°	6339.2
24°	6208.9
25°	6072.1
26°	5916.3
27°	5741.3
28°	5544.1
29°	5324.6
30°	5073.3
31°	4809.3
32°	4532.6
33°	4236.8
34°	3941.0
35°	3635.6
37.5°	2913.6
40°	2283.8
42.5°	1803.5
45°	1485.4
47.5°	1275.5
50°	1145.1
52.5°	1030.6
55°	932.0
57.5°	871.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	769.7
62.5°	671.1
65°	585.3
67.5°	508.9
70°	426.2
72.5°	356.2
75°	289.4
77.5°	209.9
80°	171.8
82.5°	124.1
85°	82.7
87.5°	38.1
90°	0.0

(END OF REPORT)