

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: P250766

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250766
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 EC8B100940 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9667.0 lumens
Efficiency: N/A
Efficacy: 90.9 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

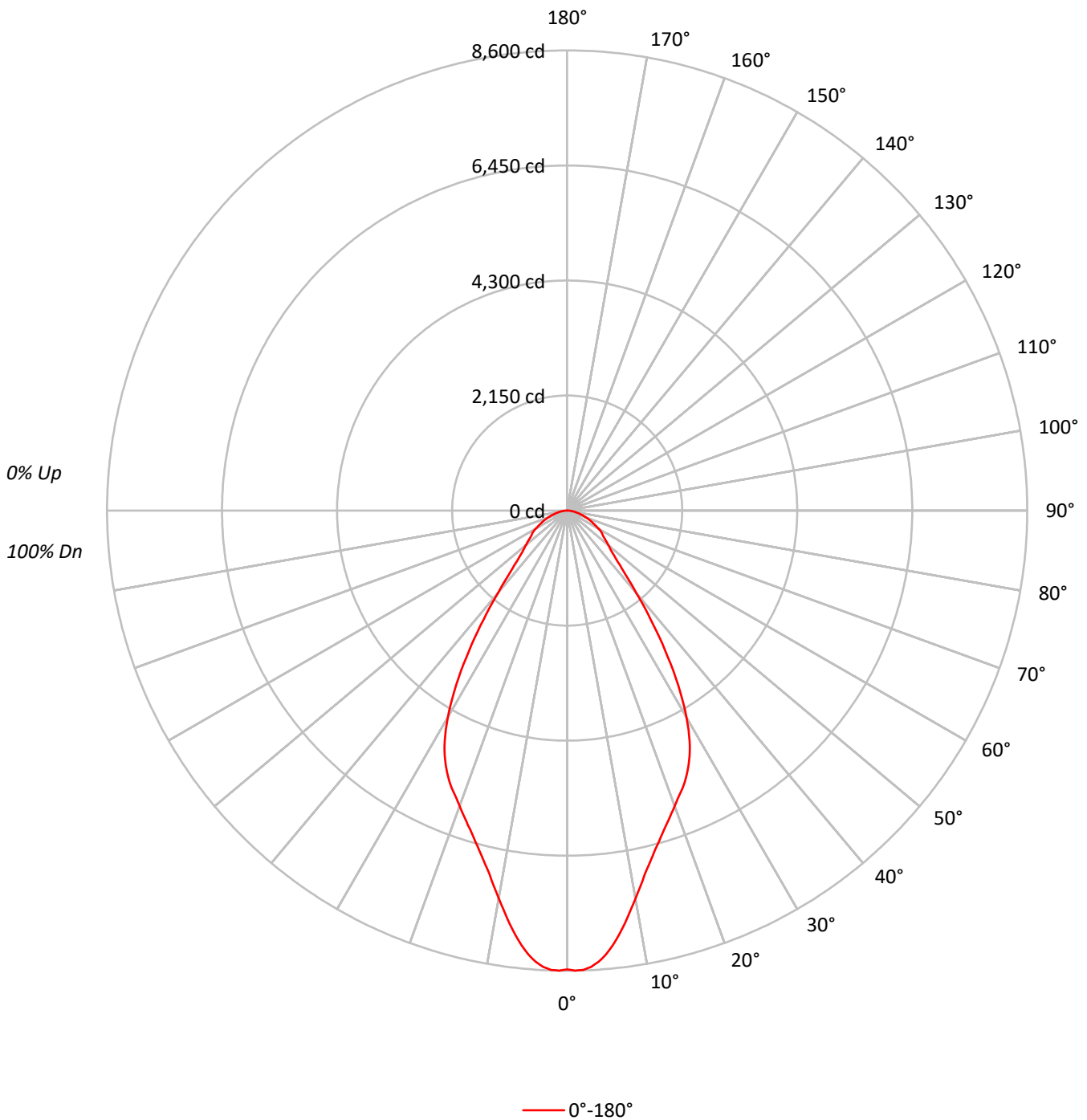
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250766

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250766

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBM0MW

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°	264424
5°	257730
10°	230409
15°	207057
20°	192829
25°	181662
30°	158838
35°	120341
40°	80834
45°	56958
50°	48304
55°	44058
60°	41740
65°	37548
70°	33783
75°	30322
80°	26814
85°	25722



TEST NUMBER: P250766

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.1	7.9
10°-20°	1829.1	18.9
20°-30°	2423.9	25.1
30°-40°	1987.6	20.6
40°-50°	1058.6	11.0
50°-60°	745.1	7.7
60°-70°	513.8	5.3
70°-80°	267.6	2.8
80°-90°	79.1	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°	5015.1	51.9
0°-40°	7002.8	72.4
0°-60°	8806.5	91.1
0°-90°	9667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9667.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8575	
5°	8326	762
15°	6486	1829
25°	5339	2424
35°	3197	1988
45°	1306	1059
55°	820	745
65°	515	514
75°	254	268
85°	73	79
90°	0	



TEST NUMBER: P250766

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	8575.1
1°	8600.3
2°	8589.1
3°	8538.7
4°	8452.1
5°	8326.2
6°	8169.6
7°	7982.2
8°	7780.8
9°	7565.4
10°	7358.5
11°	7159.9
12°	6958.5
13°	6790.7
14°	6631.3
15°	6485.9
16°	6348.8
17°	6223.0
18°	6105.5
19°	5988.0
20°	5876.2
21°	5767.1
22°	5672.0
23°	5574.1
24°	5459.5
25°	5339.2
26°	5202.1
27°	5048.3
28°	4874.9
29°	4681.9
30°	4460.9
31°	4228.8
32°	3985.5
33°	3725.4
34°	3465.3
35°	3196.8
37.5°	2561.9
40°	2008.1
42.5°	1585.8
45°	1306.1
47.5°	1121.6
50°	1006.9
52.5°	906.2
55°	819.5
57.5°	766.3



TEST NUMBER: P250766

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	676.8
62.5°	590.1
65°	514.6
67.5°	447.5
70°	374.7
72.5°	313.2
75°	254.5
77.5°	184.6
80°	151.0
82.5°	109.1
85°	72.7
87.5°	33.5
90°	0.0

(END OF REPORT)