

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: P250780

Luminaire Tested: **LD8B100D010 ER8B100927 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250780
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: LD8B100D010 ER8B100927 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8501.7 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

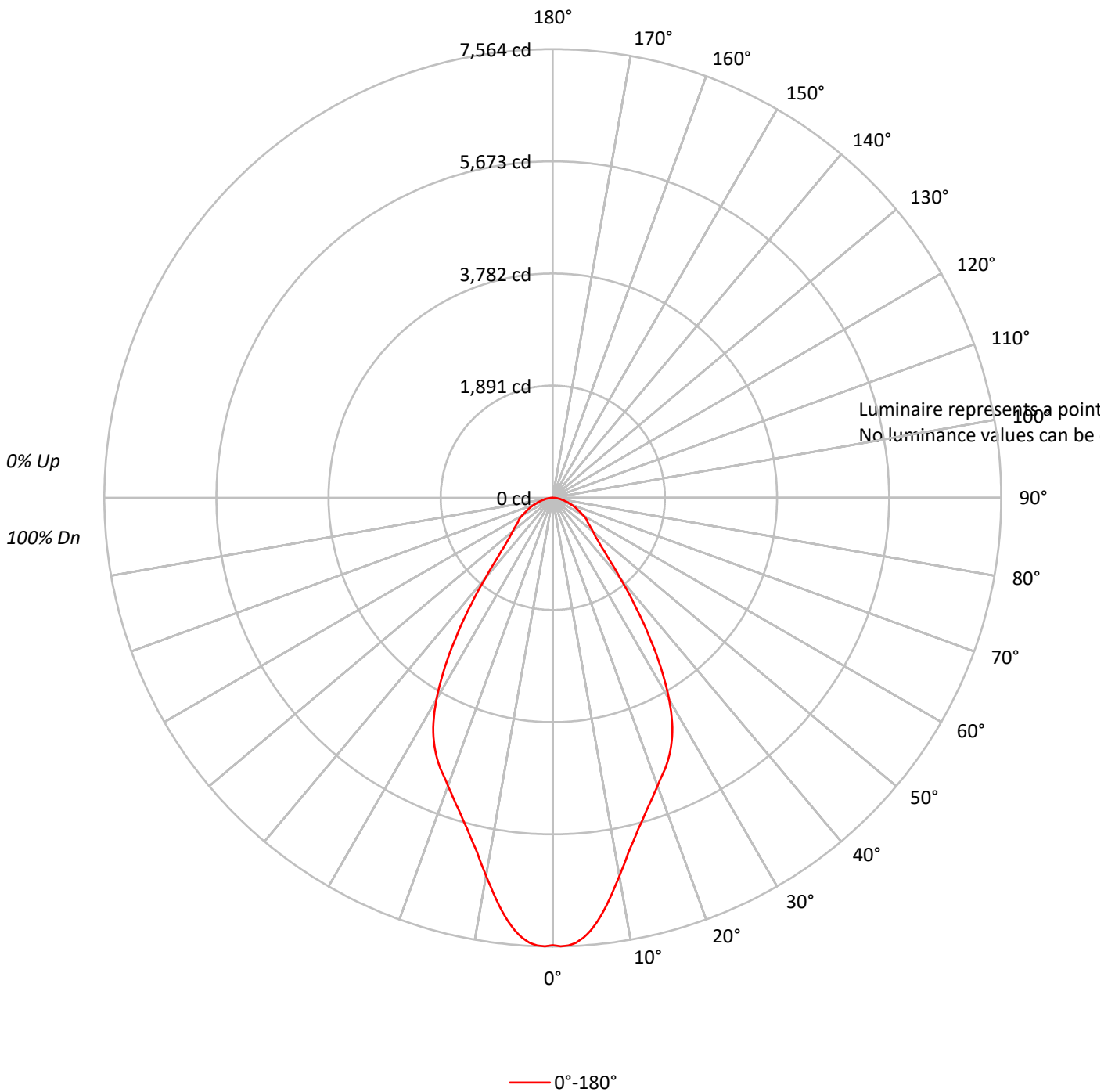
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250780

CATALOG NUMBER: LD8B100D010 ER8B100927 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250780

CATALOG NUMBER: LD8B100D010 ER8B100927 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):





TEST NUMBER: P250780

CATALOG NUMBER: LD8B100D010 ER8B100927 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.2	7.9
10°-20°	1608.6	18.9
20°-30°	2131.7	25.1
30°-40°	1748.0	20.6
40°-50°	931.0	11.0
50°-60°	655.3	7.7
60°-70°	451.9	5.3
70°-80°	235.4	2.8
80°-90°	69.6	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°	4410.5	51.9
0°-40°	6158.5	72.4
0°-60°	7744.8	91.1
0°-90°	8501.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8501.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7541	
5°	7322	670
15°	5704	1609
25°	4696	2132
35°	2811	1748
45°	1149	931
55°	721	655
65°	453	452
75°	224	235
85°	64	70
90°	0	



TEST NUMBER: P250780

CATALOG NUMBER: LD8B100D010 ER8B100927 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	7541.3
1°	7563.5
2°	7553.7
3°	7509.4
4°	7433.2
5°	7322.4
6°	7184.7
7°	7019.9
8°	6842.8
9°	6653.4
10°	6471.4
11°	6296.7
12°	6119.7
13°	5972.1
14°	5831.9
15°	5704.0
16°	5583.5
17°	5472.8
18°	5369.4
19°	5266.1
20°	5167.8
21°	5071.8
22°	4988.2
23°	4902.1
24°	4801.3
25°	4695.5
26°	4575.0
27°	4439.7
28°	4287.3
29°	4117.5
30°	3923.2
31°	3719.0
32°	3505.0
33°	3276.3
34°	3047.5
35°	2811.4
37.5°	2253.0
40°	1766.0
42.5°	1394.7
45°	1148.6
47.5°	986.4
50°	885.5
52.5°	796.9
55°	720.7
57.5°	674.0



TEST NUMBER: P250780

CATALOG NUMBER: LD8B100D010 ER8B100927 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	595.2
62.5°	519.0
65°	452.6
67.5°	393.5
70°	329.6
72.5°	275.5
75°	223.9
77.5°	162.3
80°	132.9
82.5°	96.0
85°	64.0
87.5°	29.5
90°	0.0

(END OF REPORT)