

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: P250542

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100827 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6505.1 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

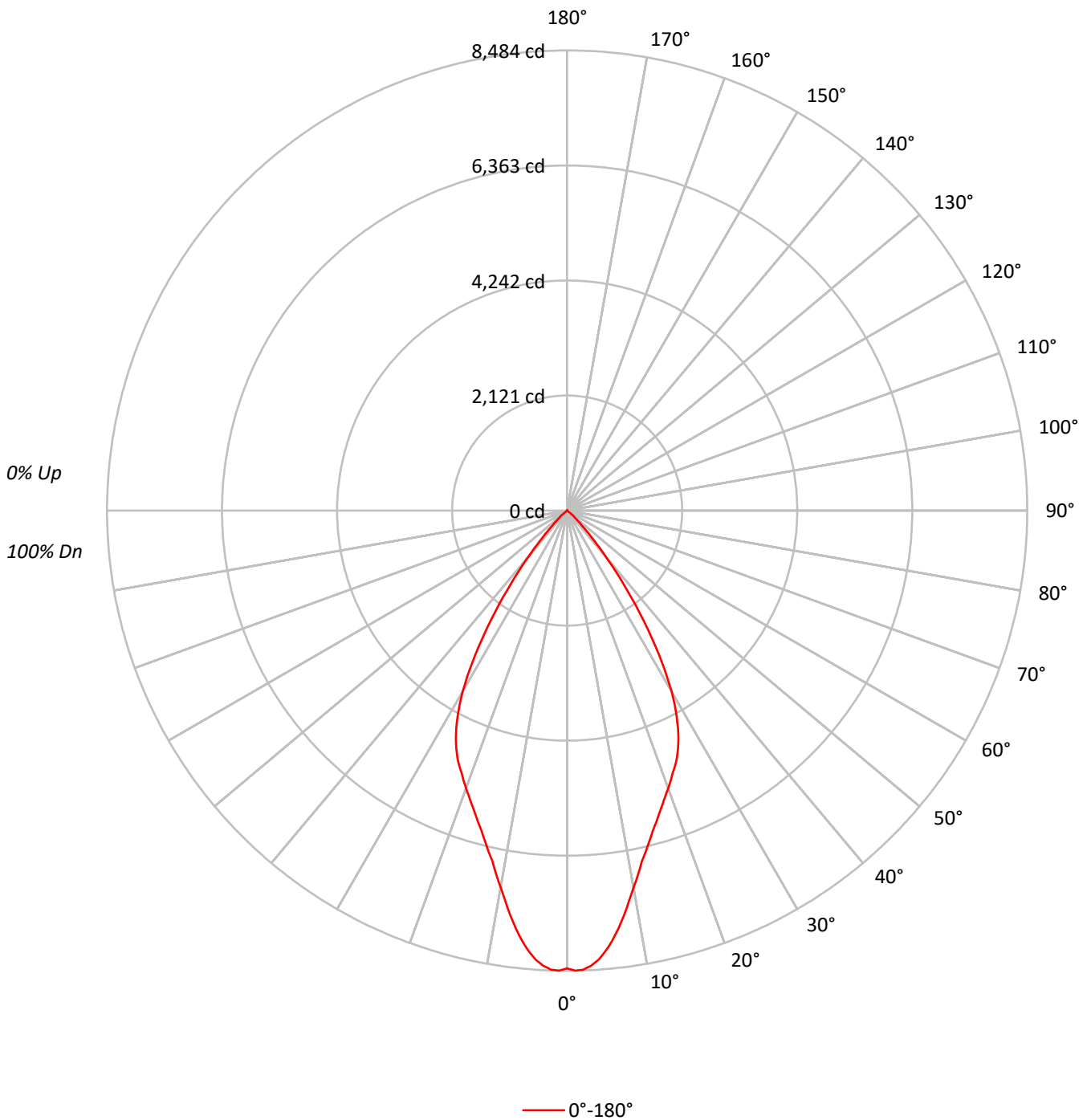
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260274
5°	252313
10°	220978
15°	195091
20°	178771
25°	164609
30°	137004
35°	91001
40°	44287
45°	16039
50°	4826
55°	339
60°	0
65°	233
70°	0
75°	0
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.4	11.4
10°-20°	1721.7	26.5
20°-30°	2184.2	33.6
30°-40°	1496.4	23.0
40°-50°	341.0	5.2
50°-60°	17.0	0.3
60°-70°	0.8	0.0
70°-80°	1.3	0.0
80°-90°	1.3	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°	4647.3	71.4
0°-40°	6143.7	94.4
0°-60°	6501.7	99.9
0°-90°	6505.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6505.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8440	
5°	8151	741
15°	6111	1722
25°	4838	2184
35°	2417	1496
45°	368	341
55°	6	17
65°	3	1
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8440.5
1°	8484.5
2°	8468.7
3°	8405.8
4°	8298.9
5°	8151.2
6°	7972.0
7°	7764.6
8°	7535.1
9°	7289.9
10°	7057.3
11°	6843.5
12°	6614.1
13°	6447.5
14°	6271.4
15°	6111.1
16°	5966.5
17°	5825.0
18°	5693.0
19°	5564.1
20°	5447.8
21°	5328.3
22°	5205.7
23°	5098.9
24°	4979.4
25°	4838.0
26°	4680.7
27°	4498.4
28°	4303.5
29°	4086.6
30°	3847.7
31°	3577.4
32°	3297.6
33°	3005.2
34°	2706.6
35°	2417.4
37.5°	1707.0
40°	1100.2
42.5°	647.6
45°	367.8
47.5°	198.1
50°	100.6
52.5°	18.8
55°	6.3
57.5°	3.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	3.2
67.5°	0.0
70°	0.0
72.5°	3.2
75°	0.0
77.5°	0.0
80°	3.2
82.5°	0.0
85°	0.0
87.5°	3.2
90°	0.0

(END OF REPORT)