

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: P250731

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250731
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 EC8B100840 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10782.1 lumens
Efficiency: N/A
Efficacy: 101.4 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

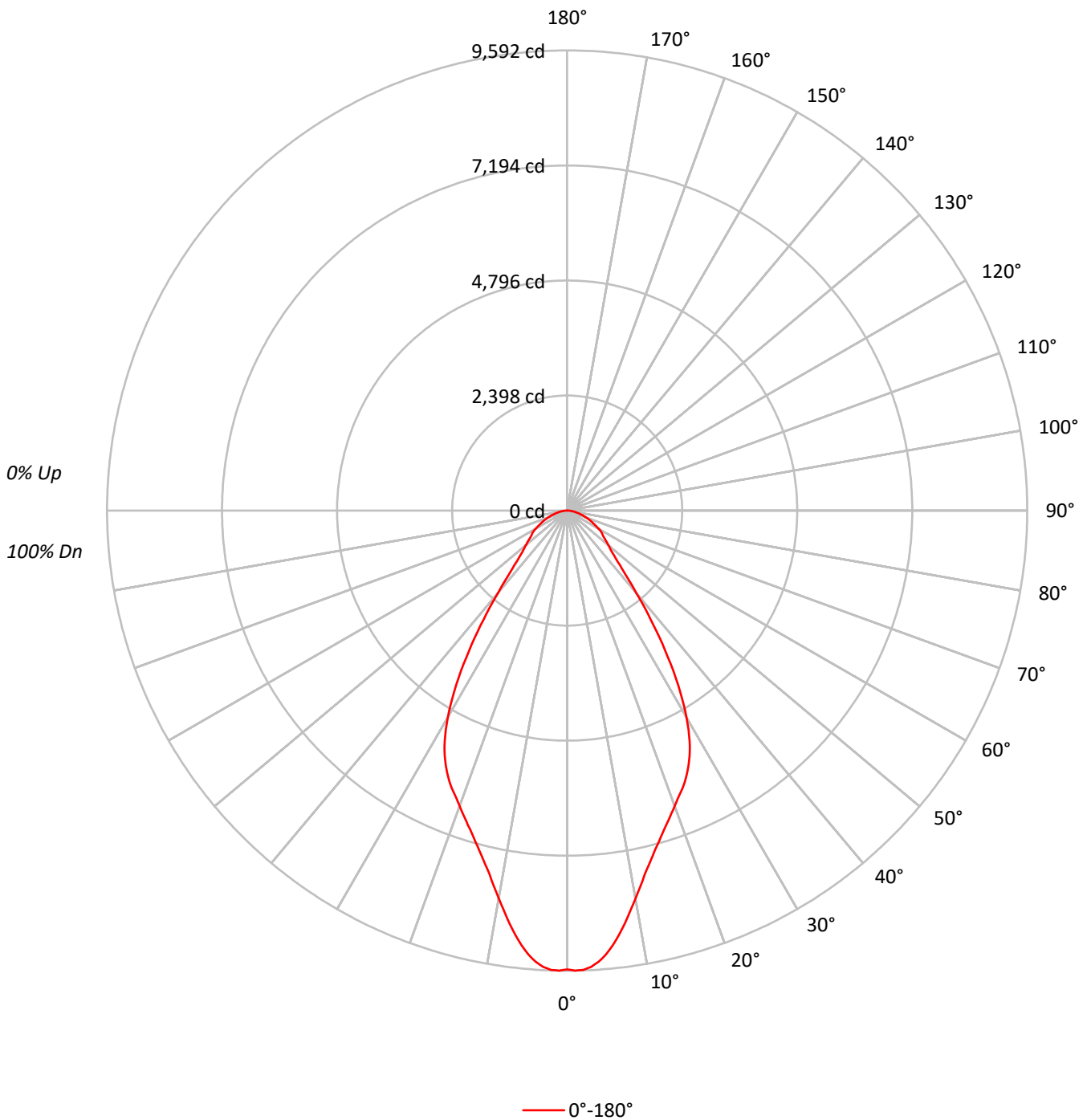
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250731

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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°	294925
5°	287455
10°	256984
15°	230939
20°	215068
25°	202614
30°	177161
35°	134220
40°	90157
45°	63530
50°	53873
55°	49138
60°	46557
65°	41882
70°	37687
75°	33825
80°	29922
85°	28694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.0	7.9
10°-20°	2040.1	18.9
20°-30°	2703.5	25.1
30°-40°	2216.9	20.6
40°-50°	1180.7	11.0
50°-60°	831.0	7.7
60°-70°	573.1	5.3
70°-80°	298.5	2.8
80°-90°	88.3	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°	5593.6	51.9
0°-40°	7810.5	72.4
0°-60°	9822.2	91.1
0°-90°	10782.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10782.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9564	
5°	9286	850
15°	7234	2040
25°	5955	2704
35°	3566	2217
45°	1457	1181
55°	914	831
65°	574	573
75°	284	298
85°	81	88
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9564.2
1°	9592.3
2°	9579.8
3°	9523.6
4°	9426.9
5°	9286.5
6°	9111.9
7°	8902.9
8°	8678.3
9°	8438.1
10°	8207.2
11°	7985.7
12°	7761.1
13°	7574.0
14°	7396.2
15°	7234.0
16°	7081.1
17°	6940.7
18°	6809.7
19°	6678.7
20°	6553.9
21°	6432.2
22°	6326.2
23°	6217.0
24°	6089.2
25°	5955.0
26°	5802.2
27°	5630.6
28°	5437.2
29°	5221.9
30°	4975.5
31°	4716.6
32°	4445.2
33°	4155.1
34°	3865.0
35°	3565.5
37.5°	2857.4
40°	2239.7
42.5°	1768.7
45°	1456.8
47.5°	1250.9
50°	1123.0
52.5°	1010.7
55°	914.0
57.5°	854.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	754.9
62.5°	658.2
65°	574.0
67.5°	499.1
70°	418.0
72.5°	349.4
75°	283.9
77.5°	205.9
80°	168.5
82.5°	121.7
85°	81.1
87.5°	37.4
90°	0.0

(END OF REPORT)