

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: P247324

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100950 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9538.9 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

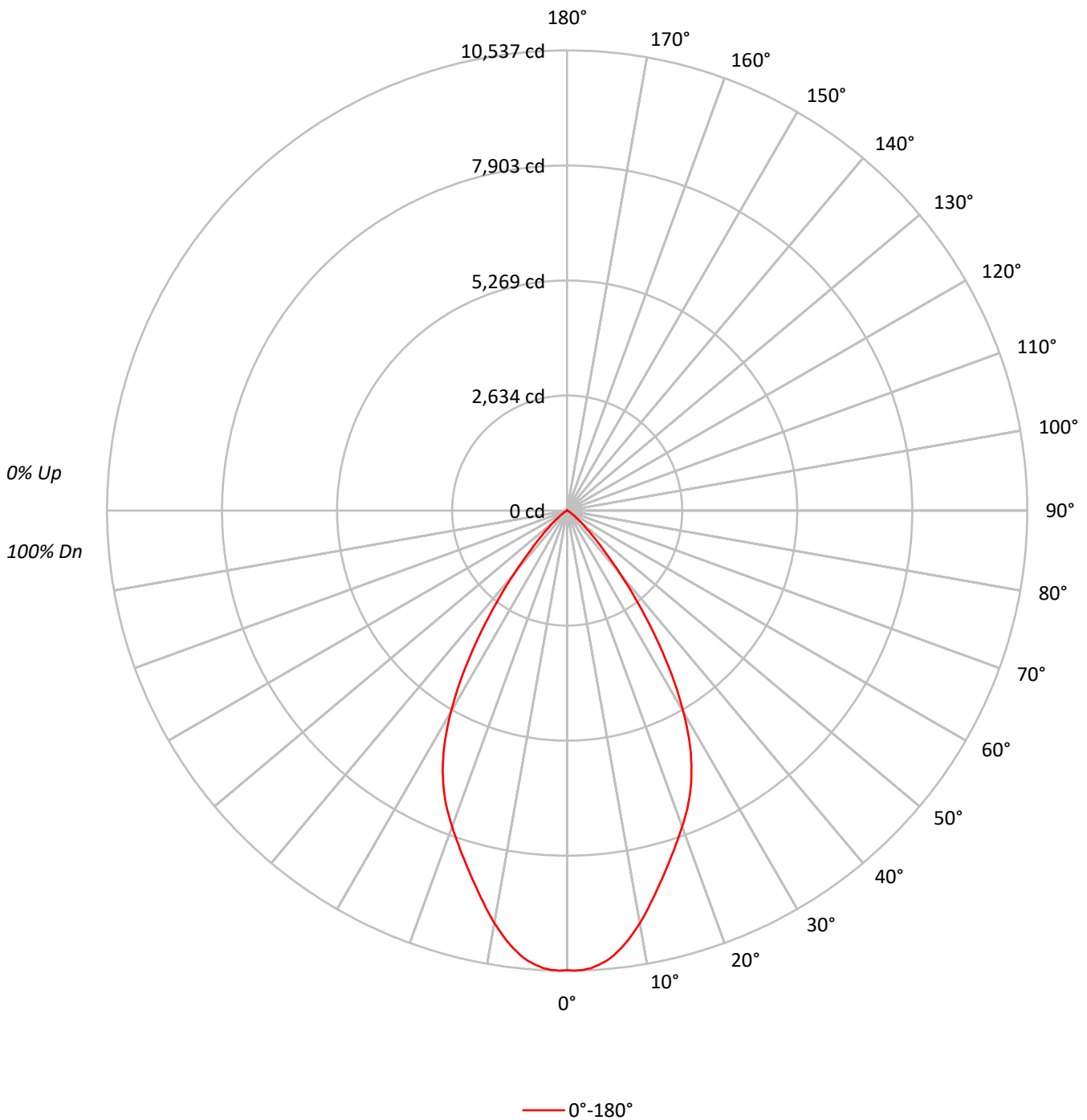
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	324475
5°	320294
10°	300279
15°	274586
20°	252786
25°	229054
30°	189659
35°	133008
40°	75690
45°	37146
50°	18321
55°	8312
60°	3941
65°	2131
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.9	10.1
10°-20°	2414.5	25.3
20°-30°	3048.0	32.0
30°-40°	2192.6	23.0
40°-50°	725.7	7.6
50°-60°	158.0	1.7
60°-70°	32.5	0.3
70°-80°	3.2	0.0
80°-90°	1.6	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°	6425.4	67.4
0°-40°	8617.9	90.3
0°-60°	9501.7	99.6
0°-90°	9538.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9538.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10522	
5°	10347	963
15°	8601	2414
25°	6732	3048
35°	3533	2193
45°	852	726
55°	155	158
65°	29	32
75°	2	3
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10522.5
1°	10537.3
2°	10524.9
3°	10490.2
4°	10425.7
5°	10347.4
6°	10239.8
7°	10099.6
8°	9945.0
9°	9775.9
10°	9589.9
11°	9400.0
12°	9193.2
13°	8994.0
14°	8793.5
15°	8601.2
16°	8411.9
17°	8230.4
18°	8050.5
19°	7877.5
20°	7703.3
21°	7524.8
22°	7350.6
23°	7161.0
24°	6956.6
25°	6732.1
26°	6496.3
27°	6233.8
28°	5956.2
29°	5647.8
30°	5326.5
31°	4988.6
32°	4632.9
33°	4259.8
34°	3894.7
35°	3533.3
37.5°	2653.5
40°	1880.3
42.5°	1273.8
45°	851.8
47.5°	571.5
50°	381.9
52.5°	230.6
55°	154.6
57.5°	107.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	63.9
62.5°	43.7
65°	29.2
67.5°	26.2
70°	2.4
72.5°	6.0
75°	2.4
77.5°	2.4
80°	0.0
82.5°	6.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)