

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: P247304

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247304
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 EC8B100850 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10478.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

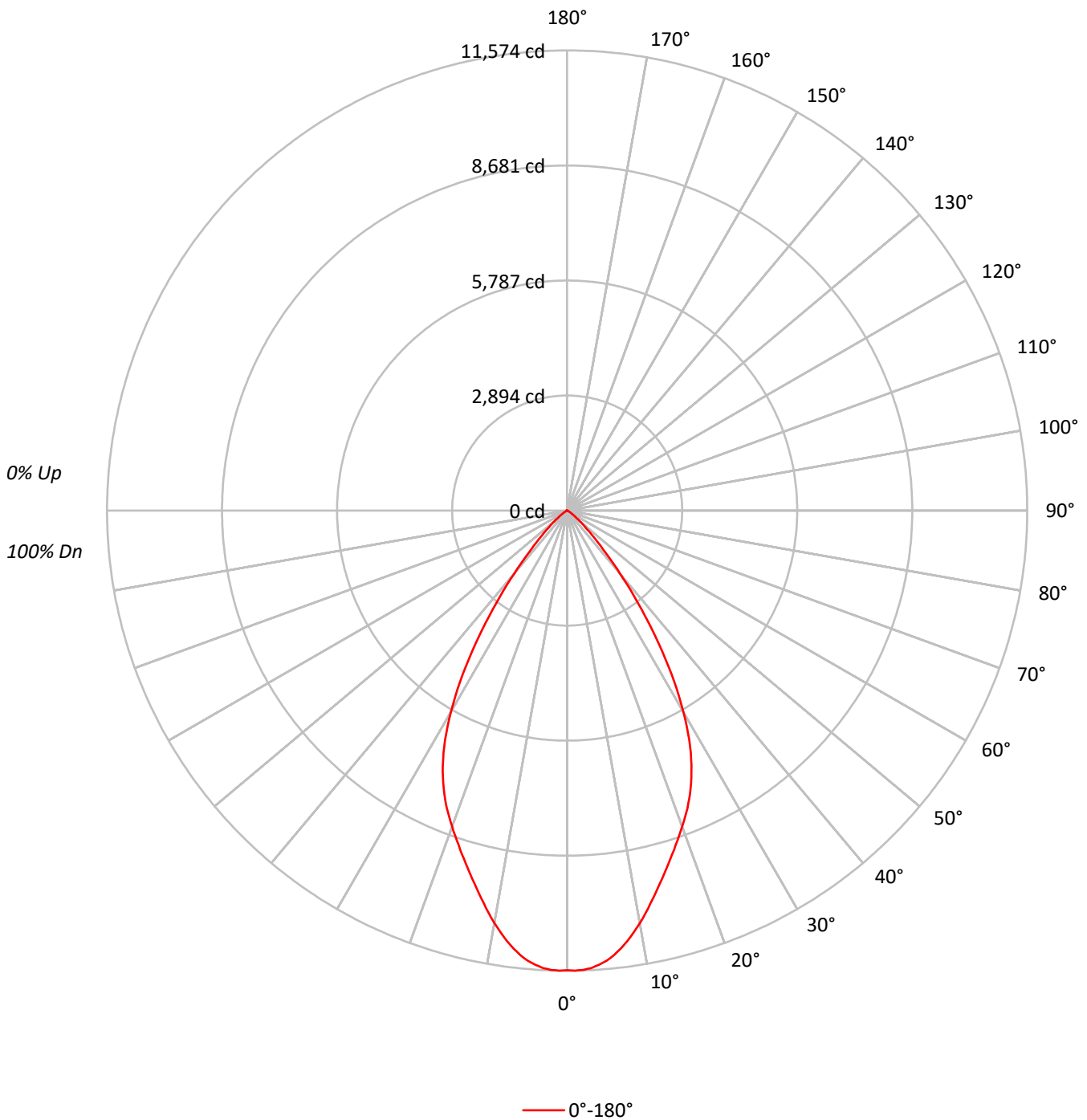
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	356415
5°	351821
10°	329838
15°	301616
20°	277667
25°	251598
30°	208328
35°	146101
40°	83141
45°	40805
50°	20125
55°	9134
60°	4329
65°	2342
70°	234
75°	310
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1057.7	10.1
10°-20°	2652.2	25.3
20°-30°	3348.0	32.0
30°-40°	2408.4	23.0
40°-50°	797.2	7.6
50°-60°	173.6	1.7
60°-70°	35.7	0.3
70°-80°	3.4	0.0
80°-90°	1.8	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°	7057.9	67.4
0°-40°	9466.3	90.3
0°-60°	10437.0	99.6
0°-90°	10478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10478.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11558	
5°	11366	###
15°	9448	2652
25°	7395	3348
35°	3881	2408
45°	936	797
55°	170	174
65°	32	36
75°	3	3
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11558.3
1°	11574.5
2°	11561.0
3°	11522.9
4°	11452.0
5°	11365.9
6°	11247.7
7°	11093.8
8°	10923.9
9°	10738.2
10°	10533.9
11°	10325.3
12°	10098.2
13°	9879.3
14°	9659.1
15°	9447.9
16°	9240.0
17°	9040.6
18°	8843.0
19°	8652.9
20°	8461.5
21°	8265.5
22°	8074.2
23°	7865.9
24°	7641.4
25°	7394.7
26°	7135.8
27°	6847.4
28°	6542.5
29°	6203.8
30°	5850.8
31°	5479.7
32°	5089.0
33°	4679.1
34°	4278.1
35°	3881.1
37.5°	2914.7
40°	2065.4
42.5°	1399.2
45°	935.7
47.5°	627.8
50°	419.5
52.5°	253.3
55°	169.9
57.5°	118.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	70.2
62.5°	48.0
65°	32.1
67.5°	28.8
70°	2.6
72.5°	6.6
75°	2.6
77.5°	2.6
80°	0.0
82.5°	6.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)