

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: P249982

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100850 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9706.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

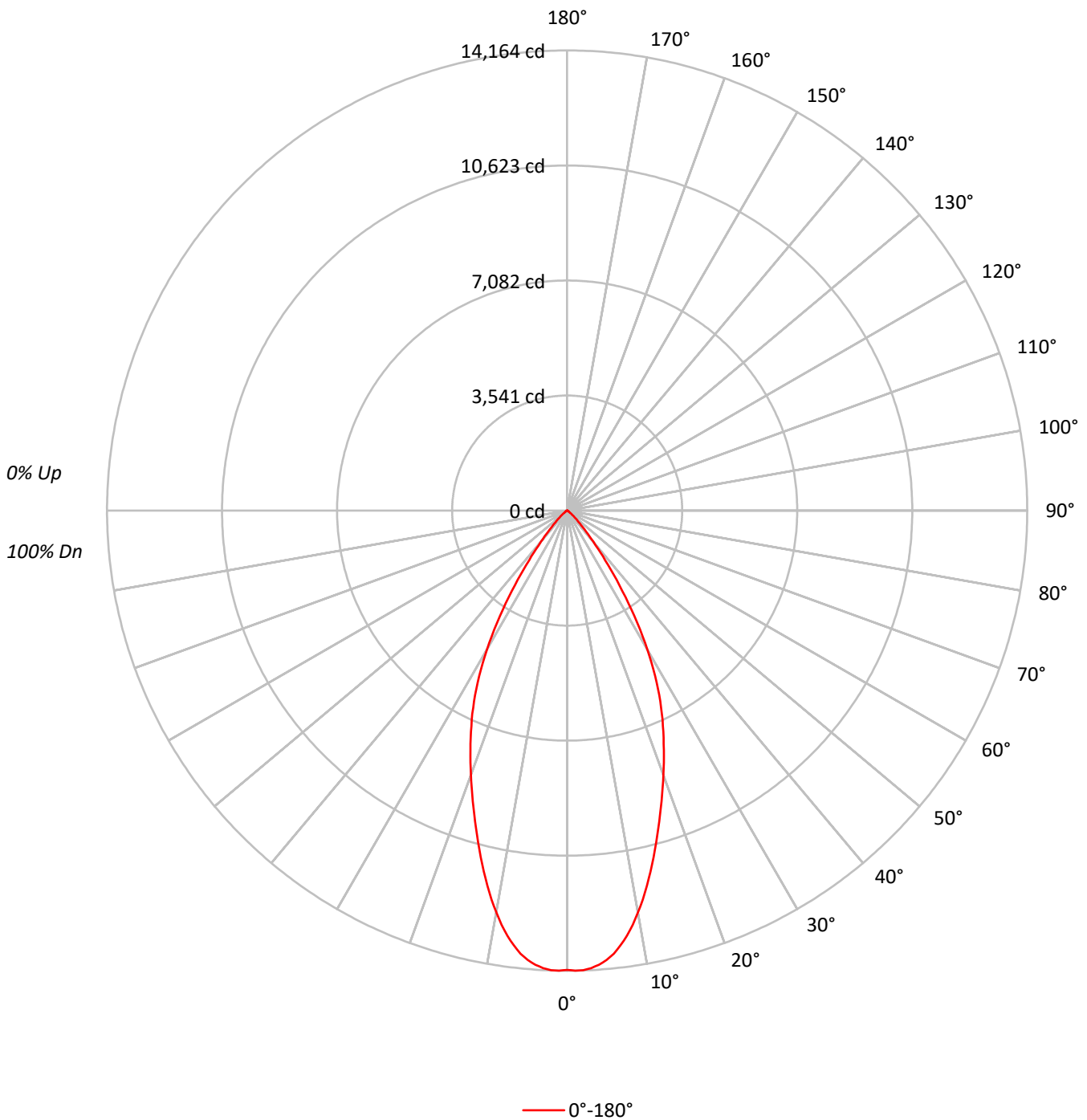
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	435933
5°	429860
10°	393263
15°	337648
20°	284335
25°	234923
30°	176210
35°	105035
40°	50044
45°	21800
50°	9887
55°	4355
60°	2498
65°	1481
70°	1524
75°	0
80°	604
85°	2406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1283.1	13.2
10°-20°	2943.9	30.3
20°-30°	3127.6	32.2
30°-40°	1784.4	18.4
40°-50°	442.4	4.6
50°-60°	87.0	0.9
60°-70°	26.2	0.3
70°-80°	6.2	0.1
80°-90°	5.1	0.1
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°	7354.6	75.8
0°-40°	9139.0	94.2
0°-60°	9668.5	99.6
0°-90°	9706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9706.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14137	
5°	13887	###
15°	10577	2944
25°	6905	3128
35°	2790	1784
45°	500	442
55°	81	87
65°	20	26
75°	0	6
85°	7	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14137.0
1°	14164.1
2°	14153.9
3°	14103.3
4°	14015.5
5°	13887.0
6°	13718.3
7°	13485.1
8°	13218.2
9°	12904.1
10°	12559.5
11°	12194.8
12°	11802.8
13°	11404.2
14°	10995.5
15°	10576.6
16°	10181.4
17°	9782.8
18°	9407.8
19°	9026.1
20°	8664.7
22.5°	7769.4
25°	6904.6
27.5°	5975.8
30°	4948.8
32.5°	3847.5
35°	2790.2
37.5°	1922.1
40°	1243.2
42.5°	787.2
45°	499.9
47.5°	327.7
50°	206.1
52.5°	125.1
55°	81.0
57.5°	64.2
60°	40.5
62.5°	37.1
65°	20.3
67.5°	20.3
70°	16.9
72.5°	10.2
75°	0.0
77.5°	3.4
80°	3.4



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	6.8
85°	6.8
87.5°	3.4
90°	0.0

(END OF REPORT)