

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: P249968

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249968
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 EC8B100835 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9582.0 lumens
Efficiency: N/A
Efficacy: 90.1 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

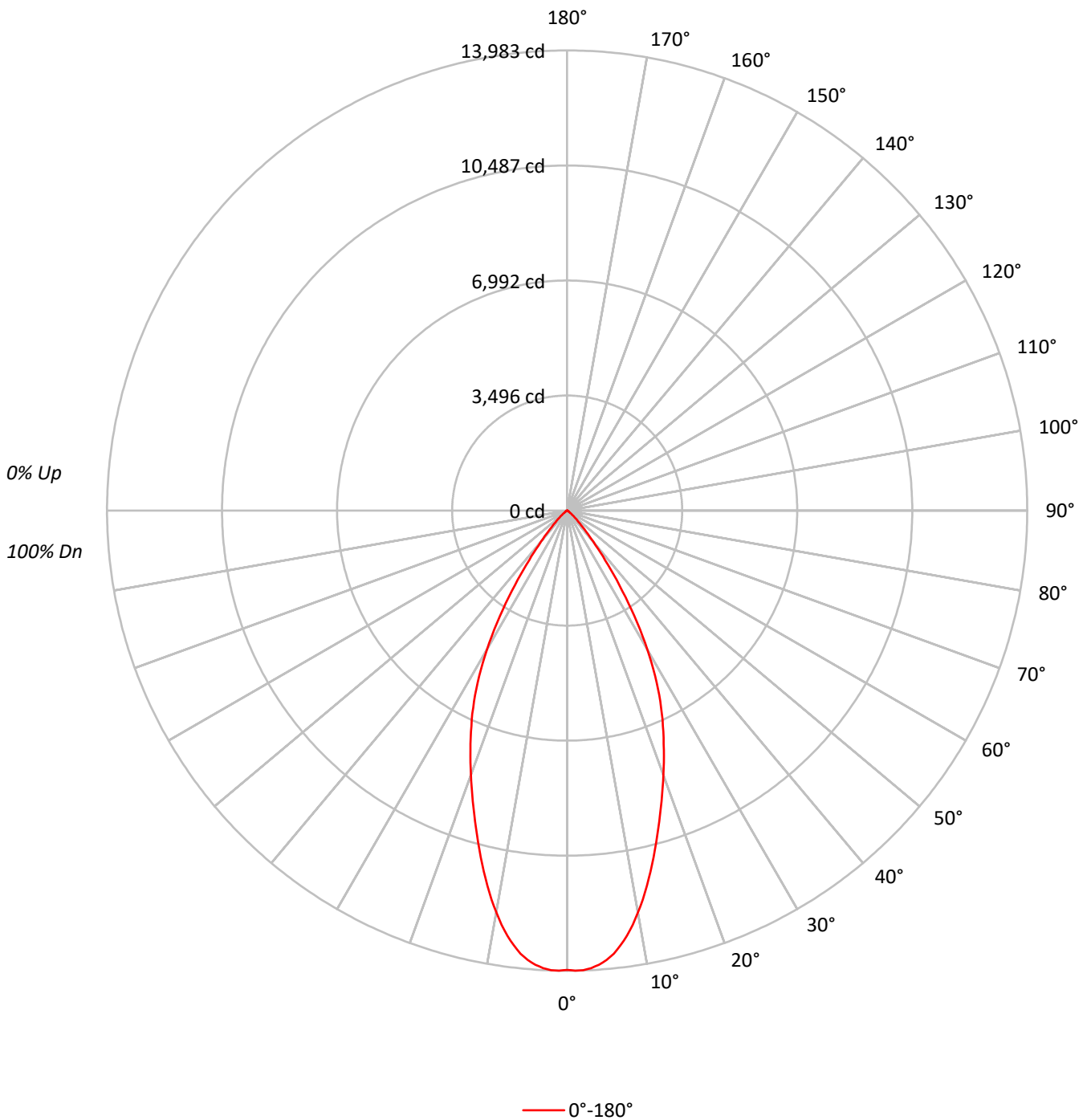
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	430364
5°	424368
10°	388238
15°	333336
20°	280702
25°	231922
30°	173960
35°	103695
40°	49404
45°	21521
50°	9758
55°	4301
60°	2467
65°	1467
70°	1506
75°	0
80°	586
85°	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1266.7	13.2
10°-20°	2906.3	30.3
20°-30°	3087.6	32.2
30°-40°	1761.6	18.4
40°-50°	436.8	4.6
50°-60°	85.9	0.9
60°-70°	25.9	0.3
70°-80°	6.1	0.1
80°-90°	5.0	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°	7260.6	75.8
0°-40°	9022.3	94.2
0°-60°	9544.9	99.6
0°-90°	9582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9582.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13956	
5°	13710	###
15°	10442	2906
25°	6816	3088
35°	2755	1762
45°	494	437
55°	80	86
65°	20	26
75°	0	6
85°	7	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13956.4
1°	13983.2
2°	13973.1
3°	13923.1
4°	13836.4
5°	13709.6
6°	13543.0
7°	13312.8
8°	13049.3
9°	12739.3
10°	12399.0
11°	12039.0
12°	11652.0
13°	11258.5
14°	10855.0
15°	10441.5
16°	10051.3
17°	9657.8
18°	9287.6
19°	8910.8
20°	8554.0
22.5°	7670.2
25°	6816.4
27.5°	5899.4
30°	4885.6
32.5°	3798.4
35°	2754.6
37.5°	1897.5
40°	1227.3
42.5°	777.1
45°	493.5
47.5°	323.5
50°	203.4
52.5°	123.5
55°	80.0
57.5°	63.4
60°	40.0
62.5°	36.6
65°	20.1
67.5°	20.1
70°	16.7
72.5°	10.0
75°	0.0
77.5°	3.3
80°	3.3



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	6.7
85°	6.7
87.5°	3.3
90°	0.0

(END OF REPORT)