

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: P250003

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250003
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 EC8B100935 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8171.1 lumens
Efficiency: N/A
Efficacy: 76.9 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

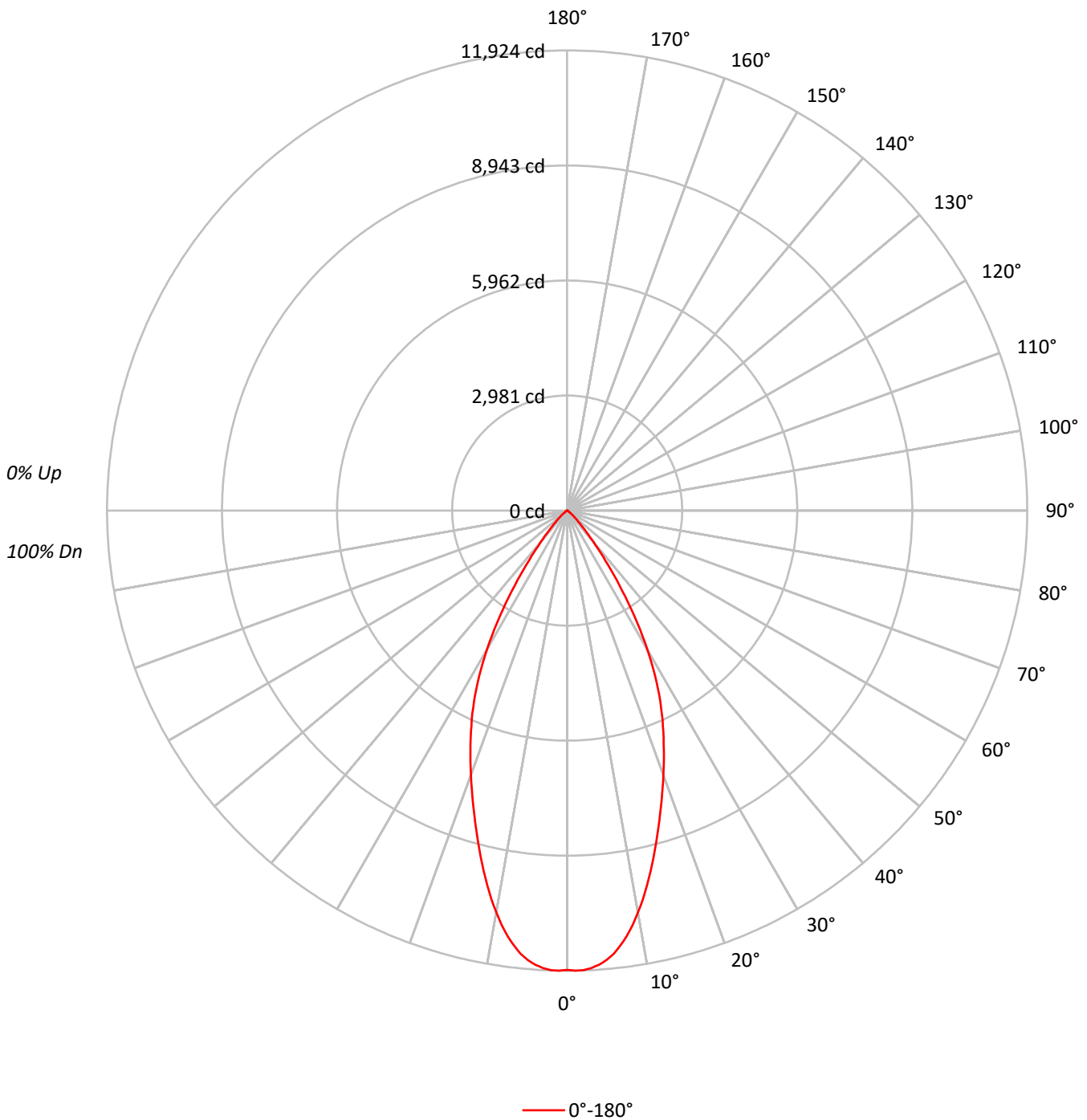
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250003

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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°	366989
5°	361878
10°	331068
15°	284249
20°	239368
25°	197772
30°	148345
35°	88426
40°	42130
45°	18355
50°	8323
55°	3667
60°	2103
65°	1248
70°	1289
75°	0
80°	515
85°	2017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1080.2	13.2
10°-20°	2478.3	30.3
20°-30°	2632.9	32.2
30°-40°	1502.2	18.4
40°-50°	372.5	4.6
50°-60°	73.3	0.9
60°-70°	22.1	0.3
70°-80°	5.3	0.1
80°-90°	4.3	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°	6191.5	75.8
0°-40°	7693.7	94.2
0°-60°	8139.4	99.6
0°-90°	8171.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8171.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11901	
5°	11691	###
15°	8904	2478
25°	5813	2633
35°	2349	1502
45°	421	372
55°	68	73
65°	17	22
75°	0	5
85°	6	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11901.2
1°	11924.1
2°	11915.5
3°	11872.9
4°	11798.9
5°	11690.8
6°	11548.7
7°	11352.4
8°	11127.7
9°	10863.4
10°	10573.2
11°	10266.2
12°	9936.2
13°	9600.7
14°	9256.6
15°	8903.9
16°	8571.2
17°	8235.7
18°	7919.9
19°	7598.7
20°	7294.4
22.5°	6540.7
25°	5812.7
27.5°	5030.7
30°	4166.2
32.5°	3239.0
35°	2349.0
37.5°	1618.1
40°	1046.6
42.5°	662.7
45°	420.9
47.5°	275.9
50°	173.5
52.5°	105.3
55°	68.2
57.5°	54.1
60°	34.1
62.5°	31.2
65°	17.1
67.5°	17.1
70°	14.3
72.5°	8.6
75°	0.0
77.5°	2.9
80°	2.9



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.7
85°	5.7
87.5°	2.9
90°	0.0

(END OF REPORT)