

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: P249800

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100835 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9796.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

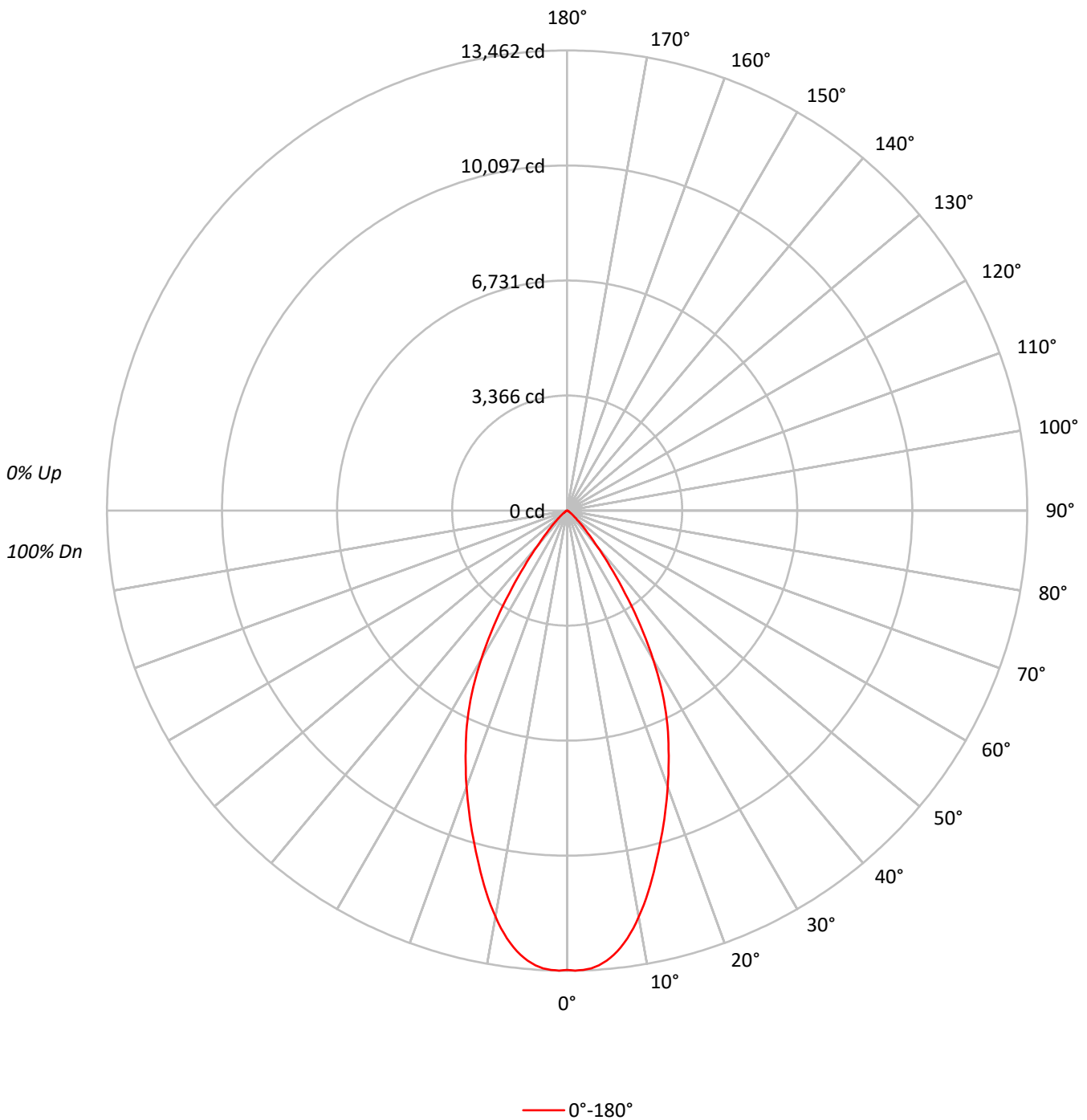
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	414314
5°	409226
10°	377939
15°	329553
20°	282294
25°	236297
30°	179771
35°	111438
40°	54979
45°	26165
50°	12722
55°	6236
60°	3885
65°	2663
70°	1497
75°	1180
80°	1172
85°	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1225.2	12.5
10°-20°	2876.4	29.4
20°-30°	3143.8	32.1
30°-40°	1870.8	19.1
40°-50°	513.2	5.2
50°-60°	116.2	1.2
60°-70°	35.9	0.4
70°-80°	10.9	0.1
80°-90°	3.6	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°	7245.3	74.0
0°-40°	9116.1	93.1
0°-60°	9745.5	99.5
0°-90°	9796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9796.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13436	
5°	13220	###
15°	10323	2876
25°	6945	3144
35°	2960	1871
45°	600	513
55°	116	116
65°	36	36
75°	10	11
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13435.9
1°	13462.4
2°	13445.8
3°	13412.6
4°	13336.4
5°	13220.4
6°	13071.2
7°	12872.3
8°	12640.2
9°	12371.7
10°	12070.1
11°	11748.5
12°	11403.7
13°	11049.0
14°	10681.1
15°	10323.0
16°	9971.6
17°	9626.9
18°	9282.1
19°	8937.3
20°	8602.5
22.5°	7760.5
25°	6945.0
27.5°	6046.6
30°	5048.8
32.5°	3978.0
35°	2960.3
37.5°	2058.6
40°	1365.8
42.5°	895.1
45°	600.0
47.5°	397.8
50°	265.2
52.5°	162.4
55°	116.0
57.5°	82.9
60°	63.0
62.5°	46.4
65°	36.5
67.5°	23.2
70°	16.6
72.5°	13.3
75°	9.9
77.5°	6.6
80°	6.6



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)