

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: P249807

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249807
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 EC8B100840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9732.1 lumens
Efficiency: N/A
Efficacy: 91.6 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

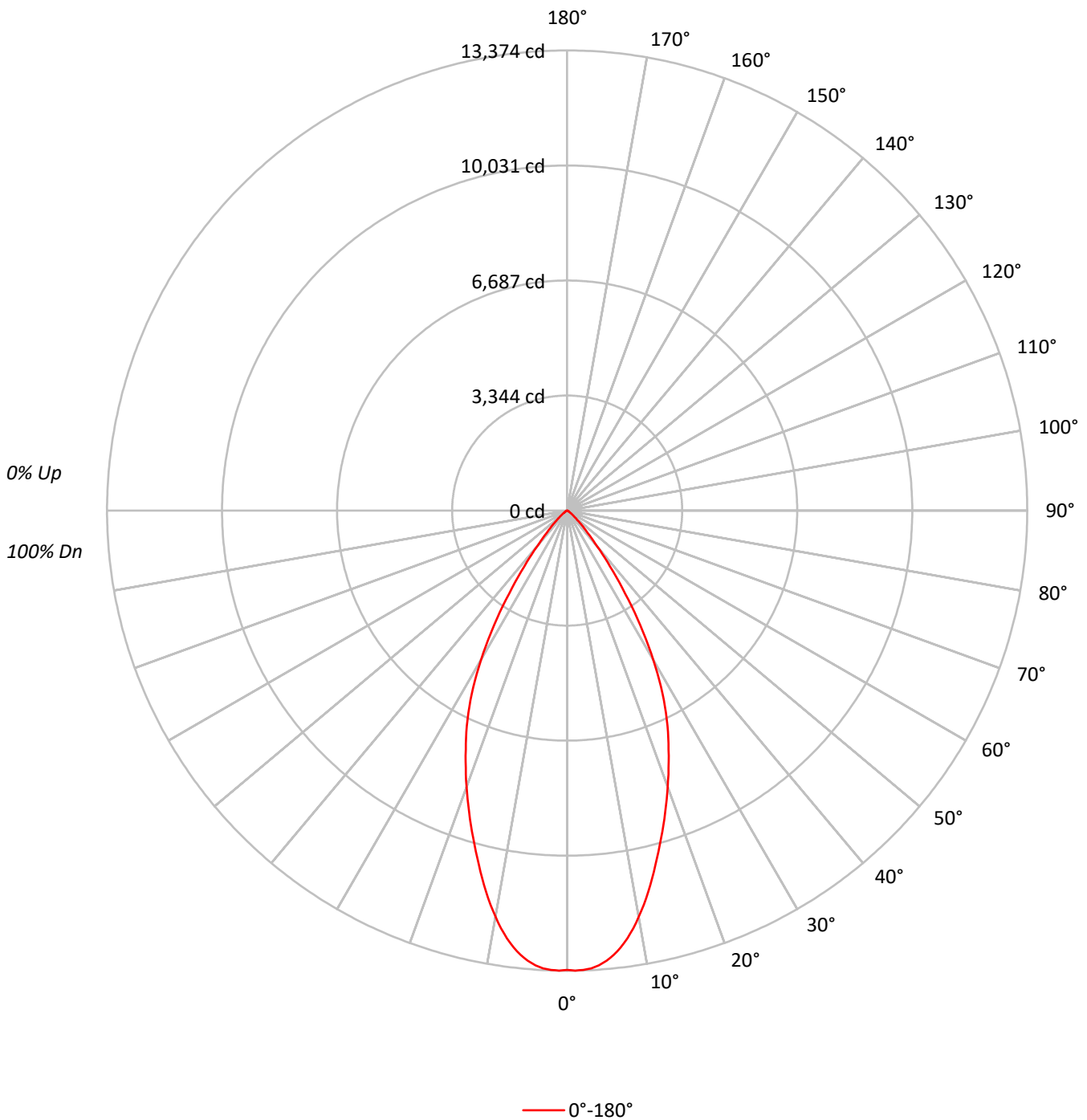
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	411606
5°	406551
10°	375469
15°	327401
20°	280450
25°	234753
30°	178596
35°	110712
40°	54621
45°	25995
50°	12641
55°	6199
60°	3861
65°	2641
70°	1488
75°	1180
80°	1172
85°	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1217.2	12.5
10°-20°	2857.6	29.4
20°-30°	3123.2	32.1
30°-40°	1858.6	19.1
40°-50°	509.8	5.2
50°-60°	115.5	1.2
60°-70°	35.7	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°	7198.0	74.0
0°-40°	9056.6	93.1
0°-60°	9681.9	99.5
0°-90°	9732.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9732.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13348	
5°	13134	###
15°	10256	2858
25°	6900	3123
35°	2941	1859
45°	596	510
55°	115	116
65°	36	36
75°	10	11
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13348.1
1°	13374.4
2°	13358.0
3°	13325.0
4°	13249.3
5°	13134.0
6°	12985.8
7°	12788.2
8°	12557.7
9°	12290.9
10°	11991.2
11°	11671.7
12°	11329.2
13°	10976.8
14°	10611.3
15°	10255.6
16°	9906.5
17°	9564.0
18°	9221.5
19°	8879.0
20°	8546.3
22.5°	7709.8
25°	6899.6
27.5°	6007.1
30°	5015.8
32.5°	3952.1
35°	2941.0
37.5°	2045.2
40°	1356.9
42.5°	889.2
45°	596.1
47.5°	395.2
50°	263.5
52.5°	161.4
55°	115.3
57.5°	82.3
60°	62.6
62.5°	46.1
65°	36.2
67.5°	23.1
70°	16.5
72.5°	13.2
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)