

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: P249793

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249793
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 EC8B100830 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9420.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

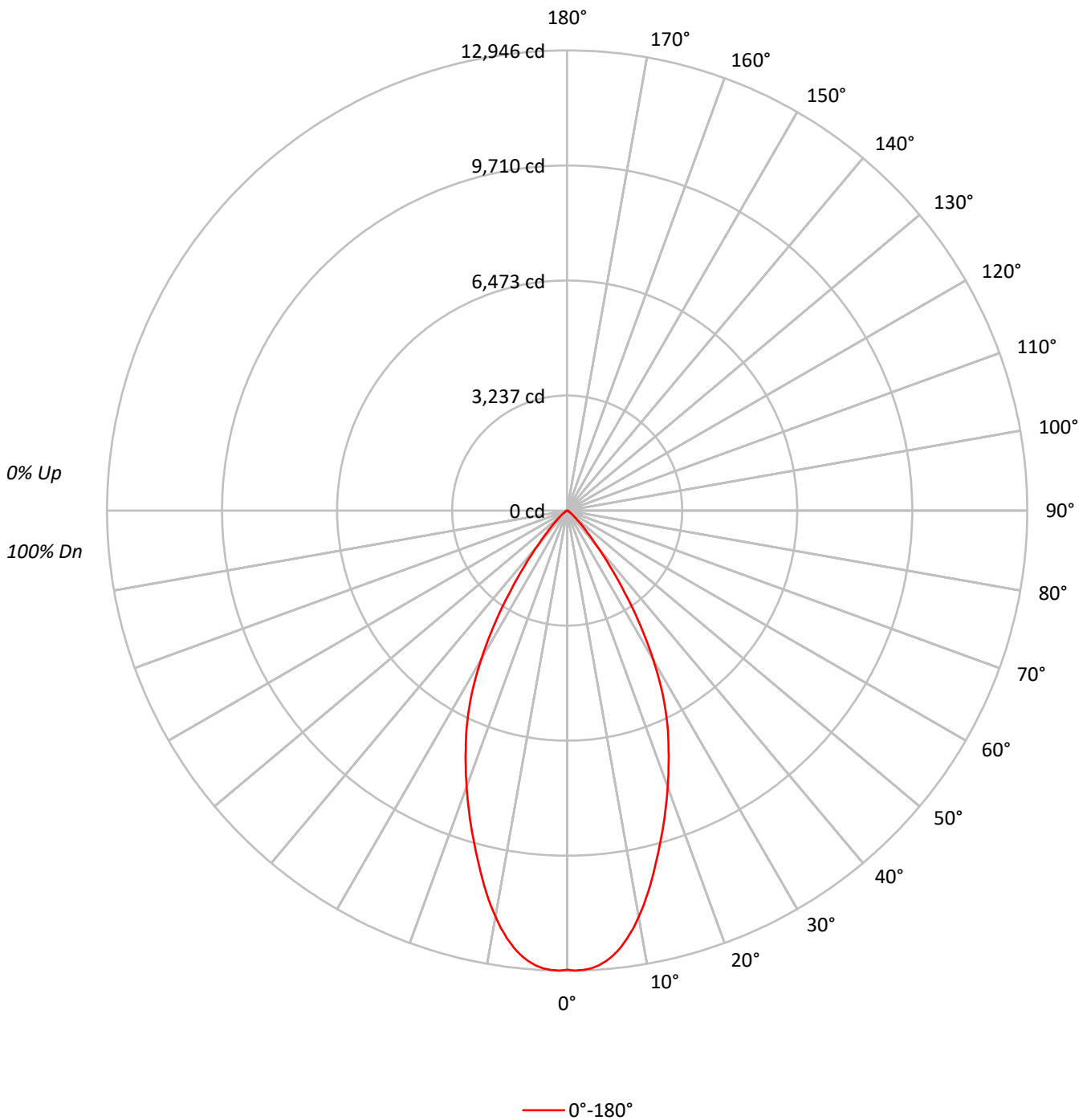
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	398408
5°	393516
10°	363432
15°	316904
20°	271458
25°	227227
30°	172871
35°	107162
40°	52870
45°	25162
50°	12233
55°	6000
60°	3737
65°	2561
70°	1434
75°	1144
80°	1137
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.2	12.5
10°-20°	2766.0	29.4
20°-30°	3023.1	32.1
30°-40°	1799.0	19.1
40°-50°	493.5	5.2
50°-60°	111.8	1.2
60°-70°	34.5	0.4
70°-80°	10.5	0.1
80°-90°	3.5	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°	6967.2	74.0
0°-40°	8766.2	93.1
0°-60°	9371.5	99.5
0°-90°	9420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9420.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12920	
5°	12713	###
15°	9927	2766
25°	6678	3023
35°	2847	1799
45°	577	493
55°	112	112
65°	35	35
75°	10	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12920.1
1°	12945.6
2°	12929.7
3°	12897.8
4°	12824.5
5°	12712.9
6°	12569.5
7°	12378.2
8°	12155.1
9°	11896.9
10°	11606.8
11°	11297.6
12°	10966.0
13°	10624.9
14°	10271.1
15°	9926.8
16°	9588.9
17°	9257.4
18°	8925.8
19°	8594.3
20°	8272.3
22.5°	7462.6
25°	6678.4
27.5°	5814.5
30°	4855.0
32.5°	3825.4
35°	2846.7
37.5°	1979.6
40°	1313.4
42.5°	860.7
45°	577.0
47.5°	382.5
50°	255.0
52.5°	156.2
55°	111.6
57.5°	79.7
60°	60.6
62.5°	44.6
65°	35.1
67.5°	22.3
70°	15.9
72.5°	12.8
75°	9.6
77.5°	6.4
80°	6.4



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	3.2
85°	3.2
87.5°	3.2
90°	0.0

(END OF REPORT)