

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: P250289

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90827 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7169.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

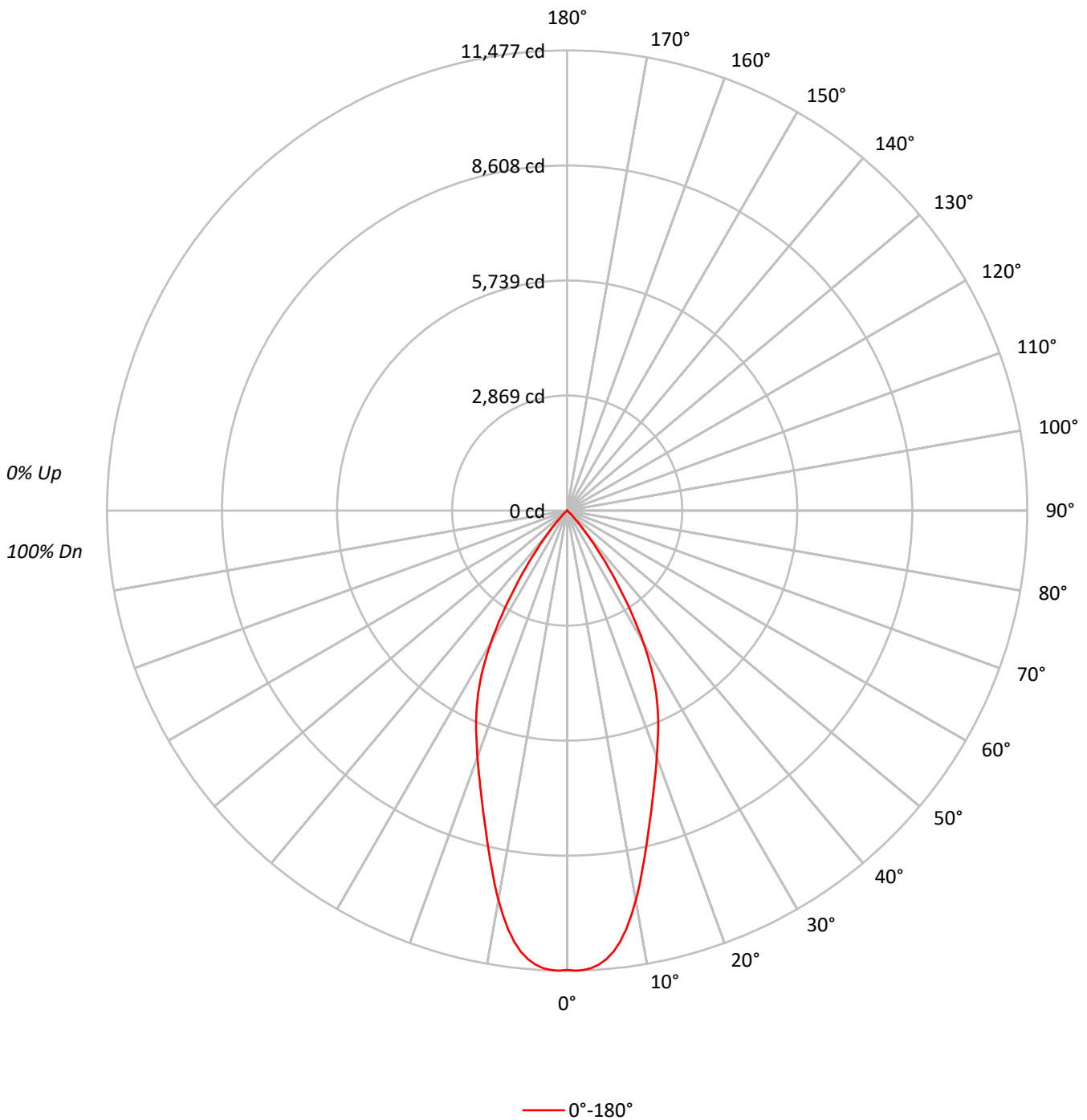
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	353242
5°	347596
10°	308834
15°	254761
20°	214560
25°	180967
30°	135498
35°	76681
40°	30319
45°	8142
50°	1559
55°	0
60°	228
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1028.3	14.3
10°-20°	2235.1	31.2
20°-30°	2399.5	33.5
30°-40°	1296.9	18.1
40°-50°	202.3	2.8
50°-60°	5.6	0.1
60°-70°	1.4	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	5662.9	79.0
0°-40°	6959.8	97.1
0°-60°	7167.7	100.0
0°-90°	7169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7169.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11455	
5°	11229	###
15°	7980	2235
25°	5319	2399
35°	2037	1297
45°	187	202
55°	0	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11455.4
1°	11477.1
2°	11466.3
3°	11427.0
4°	11351.6
5°	11229.4
6°	11061.2
7°	10834.9
8°	10551.6
9°	10225.6
10°	9863.1
11°	9482.8
12°	9088.3
13°	8694.1
14°	8327.9
15°	7980.2
16°	7660.9
17°	7352.4
18°	7065.5
19°	6796.8
20°	6538.4
21°	6287.2
22°	6050.3
23°	5814.0
24°	5566.5
25°	5318.8
26°	5067.7
27°	4780.9
28°	4465.1
29°	4142.8
30°	3805.4
31°	3443.2
32°	3080.7
33°	2722.2
34°	2360.0
35°	2037.0
37.5°	1301.9
40°	753.2
42.5°	401.8
45°	186.7
47.5°	100.6
50°	32.5
52.5°	3.7
55°	0.0
57.5°	3.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.7
62.5°	0.0
65°	0.0
67.5°	3.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)