

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: P250345

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250345
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 EC8B90940 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6806.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

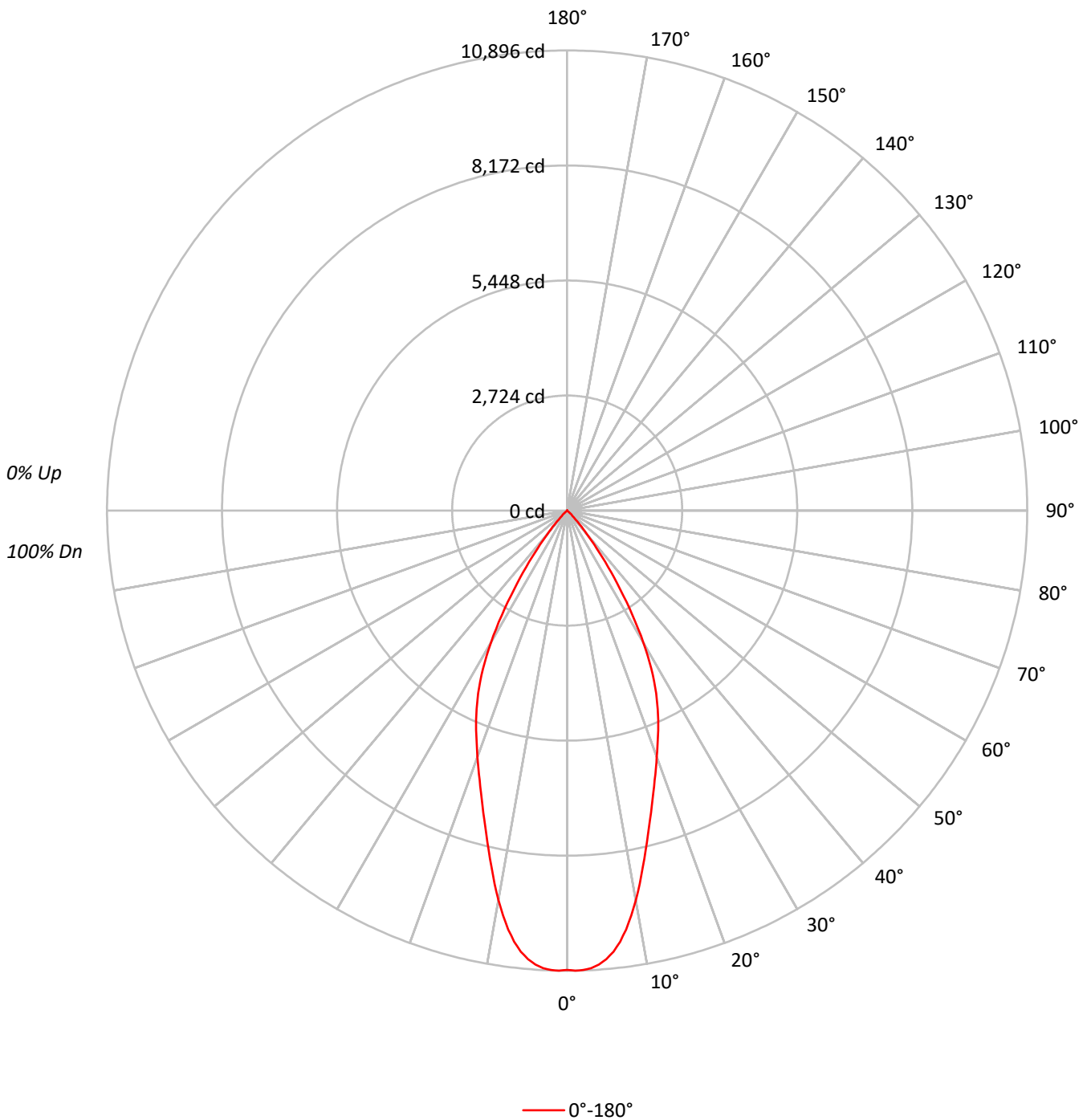
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	335354
5°	329996
10°	293193
15°	241860
20°	203695
25°	171805
30°	128636
35°	72800
40°	28786
45°	7728
50°	1482
55°	0
60°	216
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.3	14.3
10°-20°	2121.9	31.2
20°-30°	2278.0	33.5
30°-40°	1231.2	18.1
40°-50°	192.1	2.8
50°-60°	5.3	0.1
60°-70°	1.3	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°	5376.2	79.0
0°-40°	6607.4	97.1
0°-60°	6804.7	100.0
0°-90°	6806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6806.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10875	
5°	10661	976
15°	7576	2122
25°	5050	2278
35°	1934	1231
45°	177	192
55°	0	5
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10875.3
1°	10896.0
2°	10885.7
3°	10848.4
4°	10776.8
5°	10660.8
6°	10501.1
7°	10286.3
8°	10017.3
9°	9707.8
10°	9363.6
11°	9002.6
12°	8628.1
13°	8253.9
14°	7906.2
15°	7576.1
16°	7273.0
17°	6980.1
18°	6707.7
19°	6452.6
20°	6207.3
21°	5968.9
22°	5744.0
23°	5519.6
24°	5284.6
25°	5049.5
26°	4811.1
27°	4538.9
28°	4239.0
29°	3933.0
30°	3612.7
31°	3268.9
32°	2924.7
33°	2584.3
34°	2240.5
35°	1933.9
37.5°	1236.0
40°	715.1
42.5°	381.5
45°	177.2
47.5°	95.5
50°	30.9
52.5°	3.5
55°	0.0
57.5°	3.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.5
62.5°	0.0
65°	0.0
67.5°	3.5
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)