

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: P250569

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90850 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6087.1 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

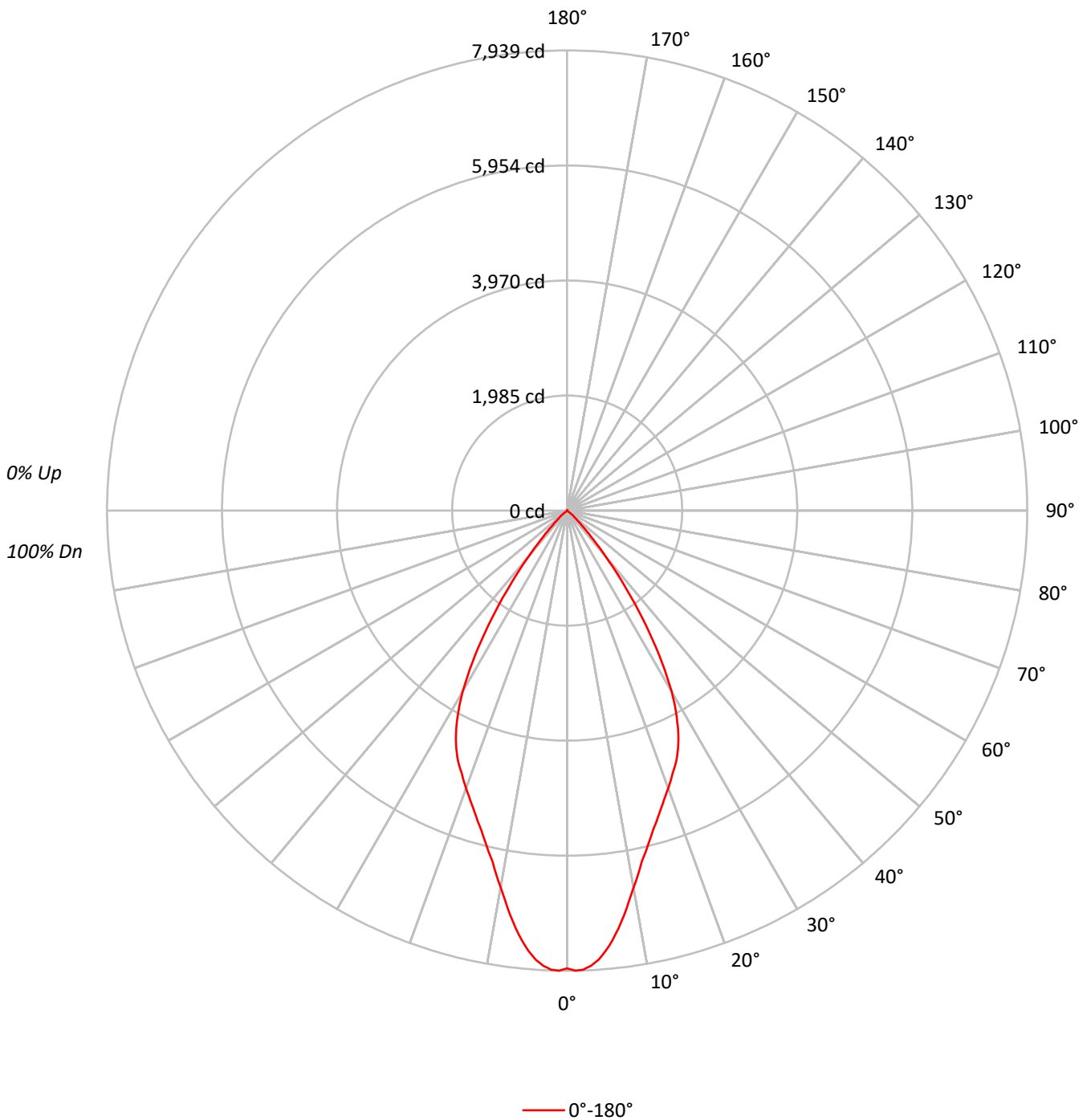
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	243548
5°	236102
10°	206778
15°	182555
20°	167283
25°	154031
30°	128202
35°	85151
40°	41441
45°	15010
50°	4514
55°	317
60°	0
65°	219
70°	0
75°	0
80°	533
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.7	11.4
10°-20°	1611.1	26.5
20°-30°	2043.9	33.6
30°-40°	1400.2	23.0
40°-50°	319.1	5.2
50°-60°	15.9	0.3
60°-70°	0.7	0.0
70°-80°	1.2	0.0
80°-90°	1.2	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°	4348.7	71.4
0°-40°	5748.9	94.4
0°-60°	6083.9	99.9
0°-90°	6087.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6087.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7898	
5°	7628	694
15°	5718	1611
25°	4527	2044
35°	2262	1400
45°	344	319
55°	6	16
65°	3	1
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7898.1
1°	7939.3
2°	7924.5
3°	7865.7
4°	7765.7
5°	7627.5
6°	7459.8
7°	7265.6
8°	7050.9
9°	6821.4
10°	6603.8
11°	6403.7
12°	6189.0
13°	6033.1
14°	5868.4
15°	5718.4
16°	5583.1
17°	5450.7
18°	5327.1
19°	5206.5
20°	5097.7
21°	4985.9
22°	4871.2
23°	4771.2
24°	4659.4
25°	4527.1
26°	4380.0
27°	4209.4
28°	4027.0
29°	3824.0
30°	3600.5
31°	3347.5
32°	3085.7
33°	2812.1
34°	2532.7
35°	2262.0
37.5°	1597.3
40°	1029.5
42.5°	606.0
45°	344.2
47.5°	185.3
50°	94.1
52.5°	17.6
55°	5.9
57.5°	3.0



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CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	3.0
67.5°	0.0
70°	0.0
72.5°	3.0
75°	0.0
77.5°	0.0
80°	3.0
82.5°	0.0
85°	0.0
87.5°	3.0
90°	0.0

(END OF REPORT)