

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: P250597

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250597
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 EC8B90940 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5353.0 lumens
Efficiency: N/A
Efficacy: 62.2 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

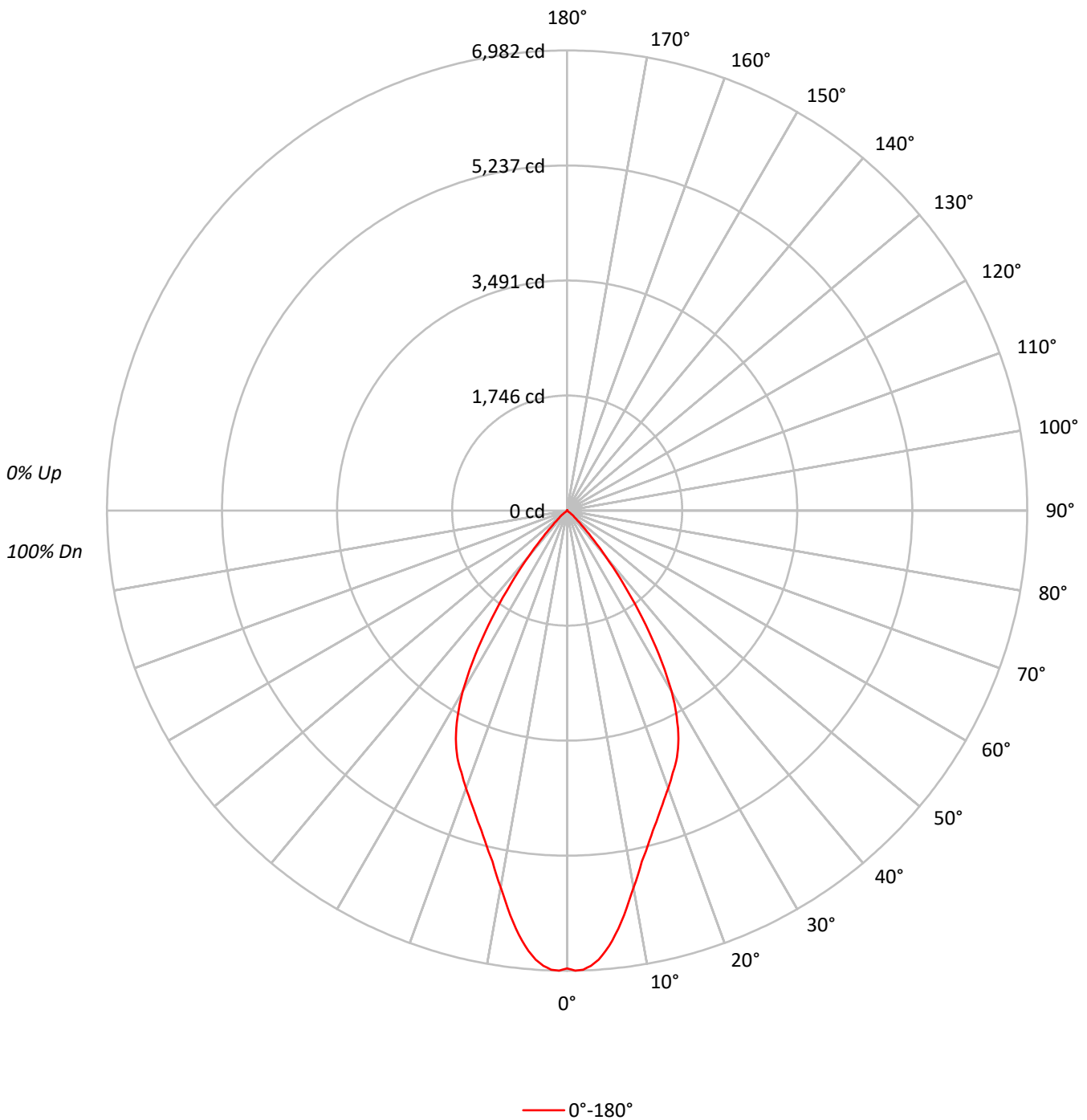
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	214180
5°	207631
10°	181845
15°	160540
20°	147111
25°	135457
30°	112742
35°	74886
40°	36446
45°	13200
50°	3972
55°	280
60°	0
65°	190
70°	0
75°	0
80°	462
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	11.4
10°-20°	1416.8	26.5
20°-30°	1797.4	33.6
30°-40°	1231.4	23.0
40°-50°	280.6	5.2
50°-60°	14.0	0.3
60°-70°	0.6	0.0
70°-80°	1.0	0.0
80°-90°	1.1	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°	3824.3	71.4
0°-40°	5055.7	94.4
0°-60°	5350.3	99.9
0°-90°	5353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5353.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6946	
5°	6708	610
15°	5029	1417
25°	3981	1797
35°	1989	1231
45°	303	281
55°	5	14
65°	3	1
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6945.7
1°	6981.9
2°	6968.9
3°	6917.2
4°	6829.2
5°	6707.7
6°	6560.2
7°	6389.5
8°	6200.6
9°	5998.9
10°	5807.5
11°	5631.6
12°	5442.7
13°	5305.6
14°	5160.8
15°	5028.8
16°	4909.9
17°	4793.4
18°	4684.8
19°	4578.7
20°	4483.0
21°	4384.7
22°	4283.8
23°	4195.9
24°	4097.6
25°	3981.2
26°	3851.8
27°	3701.8
28°	3541.4
29°	3362.9
30°	3166.3
31°	2943.8
32°	2713.6
33°	2473.0
34°	2227.3
35°	1989.3
37.5°	1404.7
40°	905.4
42.5°	532.9
45°	302.7
47.5°	163.0
50°	82.8
52.5°	15.5
55°	5.2
57.5°	2.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	2.6
67.5°	0.0
70°	0.0
72.5°	2.6
75°	0.0
77.5°	0.0
80°	2.6
82.5°	0.0
85°	0.0
87.5°	2.6
90°	0.0

(END OF REPORT)