

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: P250779

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90927 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7368.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

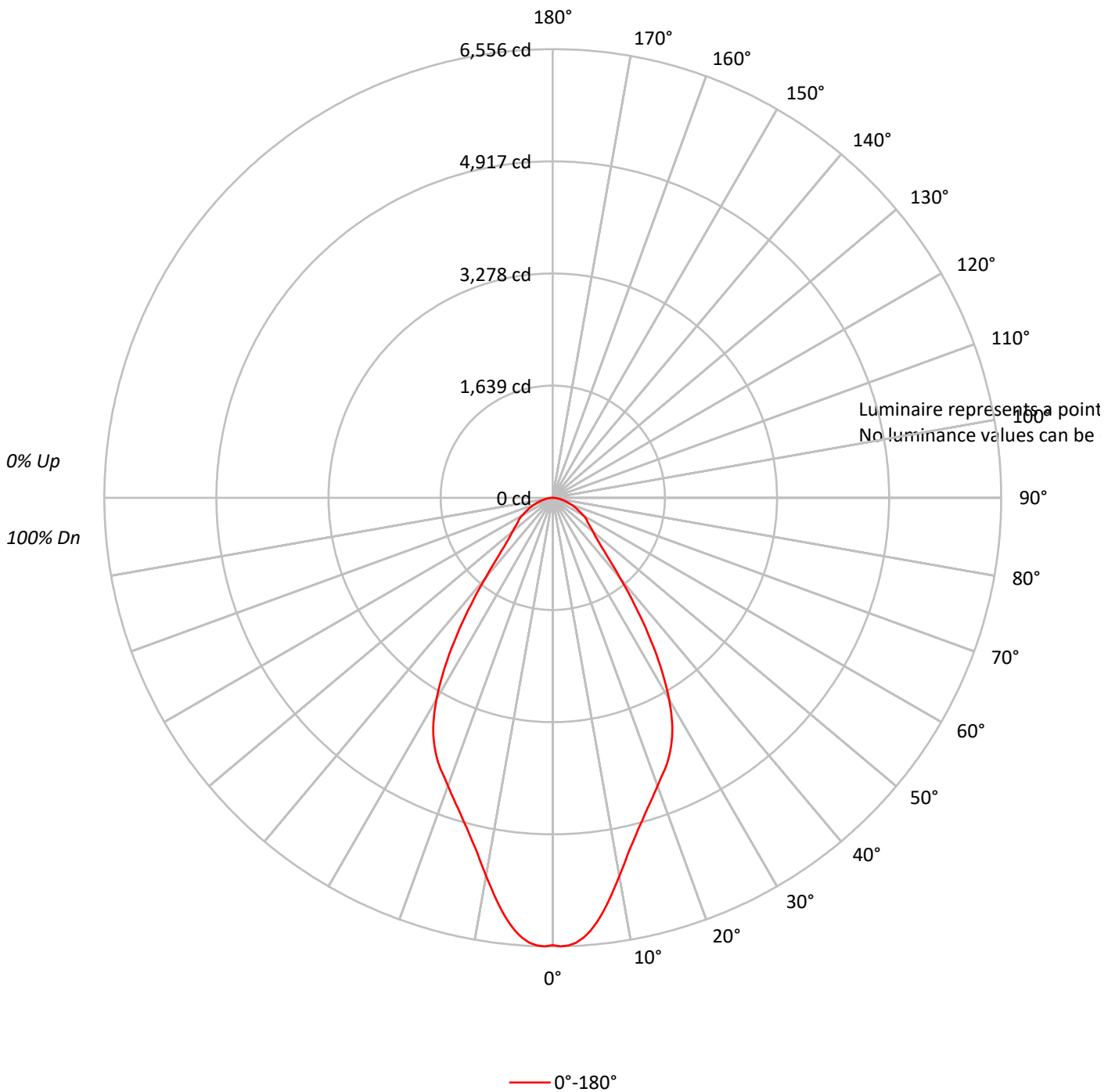
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.9	7.9
10°-20°	1394.3	18.9
20°-30°	1847.6	25.1
30°-40°	1515.1	20.6
40°-50°	806.9	11.0
50°-60°	568.0	7.7
60°-70°	391.6	5.3
70°-80°	203.9	2.8
80°-90°	60.3	0.8
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°	3822.8	51.9
0°-40°	5337.9	72.4
0°-60°	6712.8	91.1
0°-90°	7368.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7368.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6536	
5°	6347	581
15°	4944	1394
25°	4070	1848
35°	2437	1515
45°	996	807
55°	625	568
65°	392	392
75°	194	204
85°	56	60
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6536.5
1°	6555.6
2°	6547.0
3°	6508.7
4°	6442.7
5°	6346.7
6°	6227.3
7°	6084.4
8°	5931.0
9°	5766.9
10°	5609.0
11°	5457.7
12°	5304.2
13°	5176.2
14°	5054.7
15°	4943.9
16°	4839.4
17°	4743.6
18°	4653.9
19°	4564.5
20°	4479.2
21°	4396.0
22°	4323.5
23°	4248.9
24°	4161.5
25°	4069.8
26°	3965.4
27°	3848.1
28°	3715.9
29°	3568.8
30°	3400.4
31°	3223.5
32°	3038.0
33°	2839.7
34°	2641.5
35°	2436.8
37.5°	1952.8
40°	1530.7
42.5°	1208.8
45°	995.6
47.5°	854.9
50°	767.5
52.5°	690.8
55°	624.7
57.5°	584.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	515.9
62.5°	449.8
65°	392.3
67.5°	341.1
70°	285.6
72.5°	238.7
75°	194.0
77.5°	140.7
80°	115.1
82.5°	83.1
85°	55.5
87.5°	25.5
90°	0.0

(END OF REPORT)