

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: P250758

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250758
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 EC8B90935 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8022.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

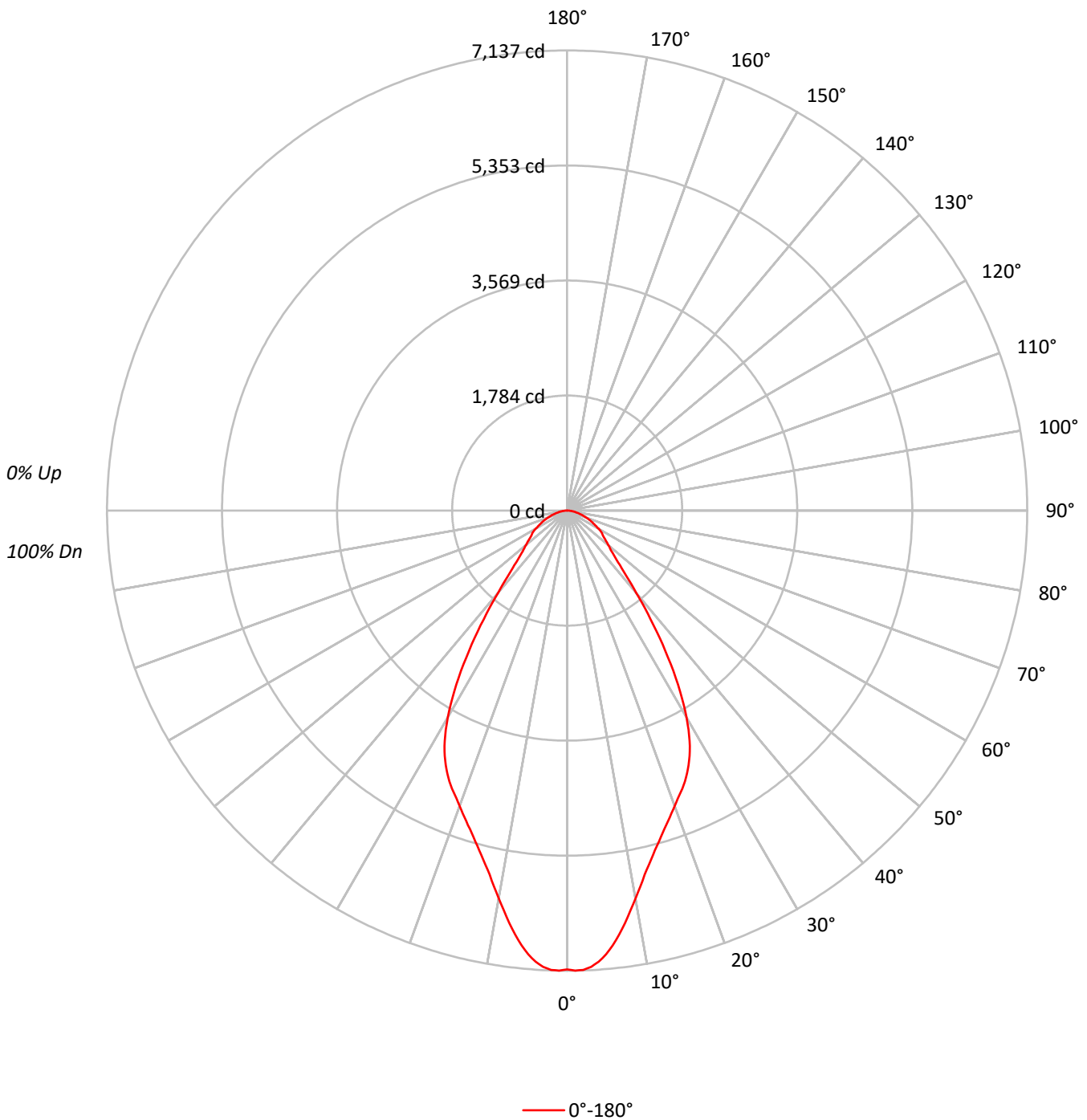
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):

	0°
0°	219428
5°	213871
10°	191201
15°	171822
20°	160014
25°	150747
30°	131809
35°	99863
40°	67079
45°	47268
50°	40081
55°	36558
60°	34635
65°	31163
70°	28040
75°	25163
80°	22251
85°	21370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.4	7.9
10°-20°	1517.9	18.9
20°-30°	2011.5	25.1
30°-40°	1649.4	20.6
40°-50°	878.5	11.0
50°-60°	618.3	7.7
60°-70°	426.4	5.3
70°-80°	222.0	2.8
80°-90°	65.7	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°	4161.7	51.9
0°-40°	5811.1	72.4
0°-60°	7307.9	91.1
0°-90°	8022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8022.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7116	
5°	6909	632
15°	5382	1518
25°	4431	2011
35°	2653	1649
45°	1084	878
55°	680	618
65°	427	426
75°	211	222
85°	60	66
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7115.9
1°	7136.8
2°	7127.5
3°	7085.7
4°	7013.8
5°	6909.3
6°	6779.4
7°	6623.9
8°	6456.8
9°	6278.1
10°	6106.3
11°	5941.5
12°	5774.4
13°	5635.2
14°	5502.9
15°	5382.2
16°	5268.5
17°	5164.0
18°	5066.5
19°	4969.1
20°	4876.2
21°	4785.7
22°	4706.8
23°	4625.6
24°	4530.4
25°	4430.6
26°	4316.9
27°	4189.3
28°	4045.4
29°	3885.2
30°	3701.8
31°	3509.2
32°	3307.3
33°	3091.5
34°	2875.6
35°	2652.8
37.5°	2125.9
40°	1666.4
42.5°	1316.0
45°	1083.9
47.5°	930.7
50°	835.5
52.5°	752.0
55°	680.0
57.5°	635.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	561.6
62.5°	489.7
65°	427.1
67.5°	371.3
70°	311.0
72.5°	259.9
75°	211.2
77.5°	153.2
80°	125.3
82.5°	90.5
85°	60.4
87.5°	27.8
90°	0.0

(END OF REPORT)