

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: P250786

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250786
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 EC8B909730 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6930.0 lumens
Efficiency: N/A
Efficacy: 80.5 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

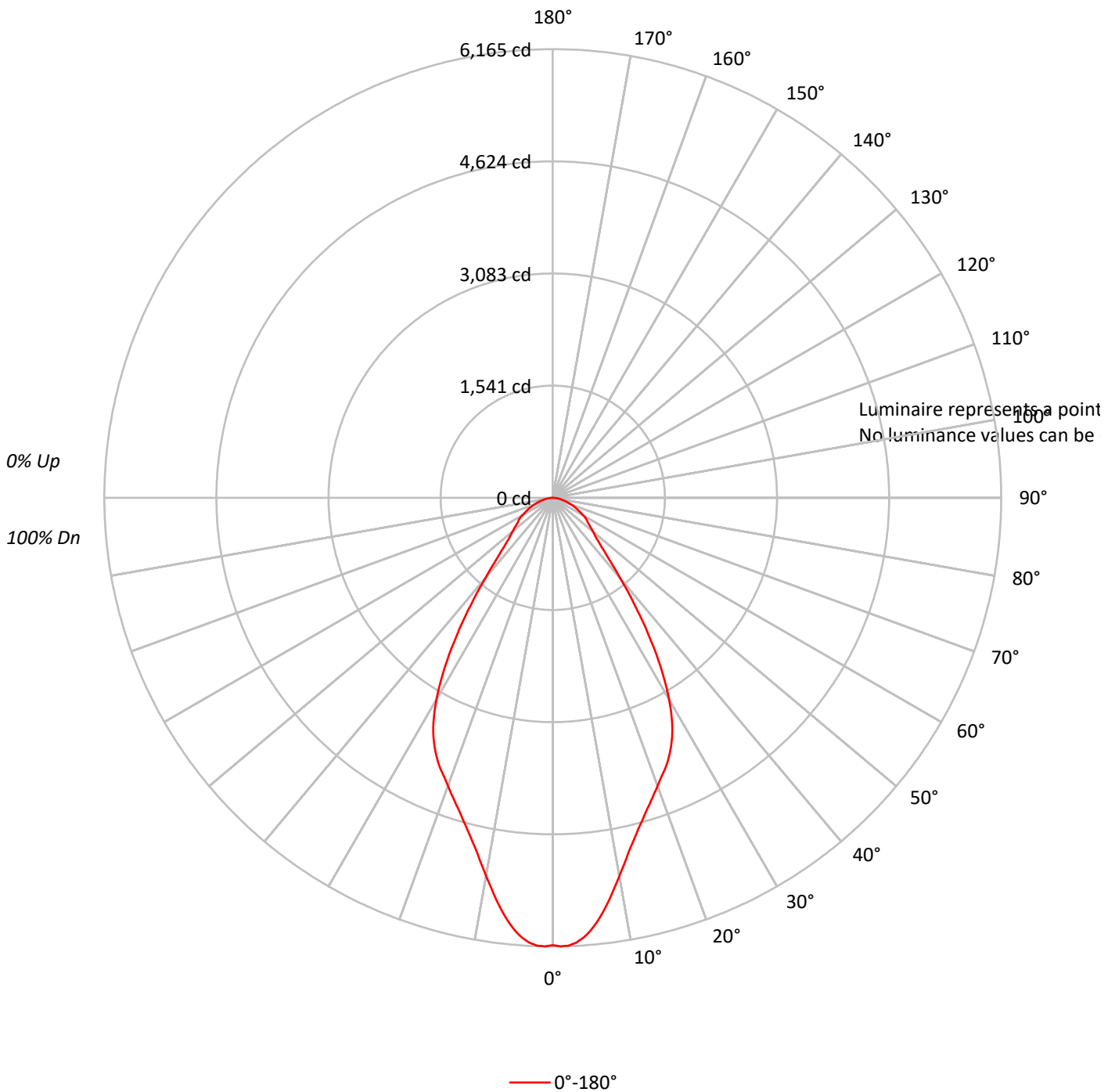
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	546.3	7.9
10°-20°	1311.2	18.9
20°-30°	1737.6	25.1
30°-40°	1424.9	20.6
40°-50°	758.9	11.0
50°-60°	534.1	7.7
60°-70°	368.3	5.3
70°-80°	191.8	2.8
80°-90°	56.7	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°	3595.2	51.9
0°-40°	5020.1	72.4
0°-60°	6313.1	91.1
0°-90°	6930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6930.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6147	
5°	5969	546
15°	4650	1311
25°	3828	1738
35°	2292	1425
45°	936	759
55°	588	534
65°	369	368
75°	182	192
85°	52	57
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6147.3
1°	6165.3
2°	6157.3
3°	6121.2
4°	6059.1
5°	5968.8
6°	5856.5
7°	5722.2
8°	5577.8
9°	5423.5
10°	5275.1
11°	5132.7
12°	4988.4
13°	4868.1
14°	4753.8
15°	4649.6
16°	4551.3
17°	4461.1
18°	4376.8
19°	4292.7
20°	4212.4
21°	4134.3
22°	4066.1
23°	3995.9
24°	3913.7
25°	3827.5
26°	3729.3
27°	3619.0
28°	3494.7
29°	3356.3
30°	3197.9
31°	3031.5
32°	2857.1
33°	2670.6
34°	2484.2
35°	2291.7
37.5°	1836.6
40°	1439.6
42.5°	1136.8
45°	936.3
47.5°	804.0
50°	721.8
52.5°	649.6
55°	587.5
57.5°	549.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	485.2
62.5°	423.0
65°	368.9
67.5°	320.8
70°	268.6
72.5°	224.5
75°	182.4
77.5°	132.3
80°	108.3
82.5°	78.2
85°	52.1
87.5°	24.0
90°	0.0

(END OF REPORT)