

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: P250733

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250733
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: LSR8B150D010 EC8B150840 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15975.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

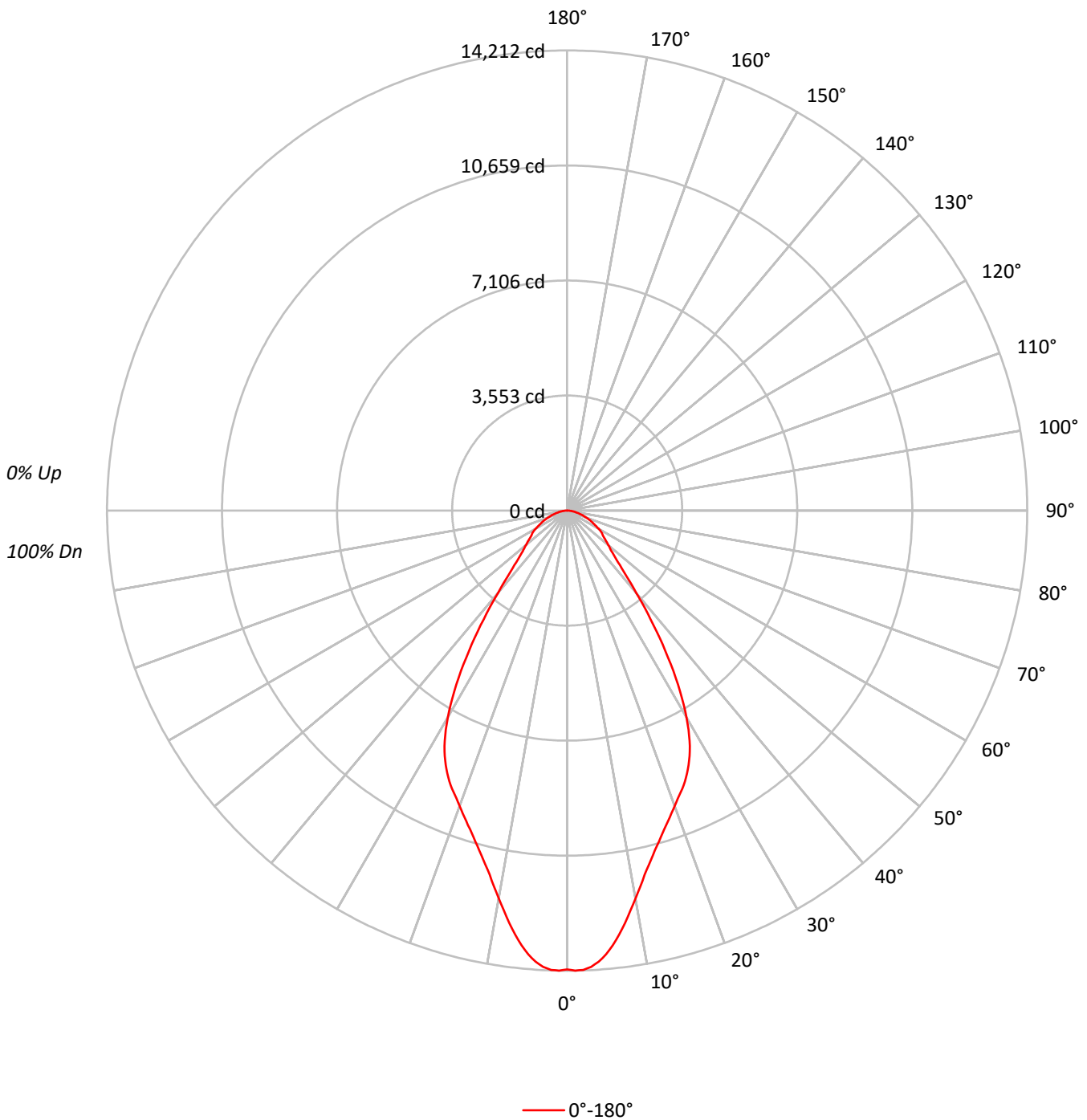
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	436969
5°	425904
10°	380757
15°	342166
20°	318653
25°	300198
30°	262486
35°	198863
40°	133583
45°	94126
50°	79822
55°	72804
60°	68981
65°	62049
70°	55836
75°	50111
80°	44324
85°	42528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.4	7.9
10°-20°	3022.7	18.9
20°-30°	4005.6	25.1
30°-40°	3284.6	20.6
40°-50°	1749.4	11.0
50°-60°	1231.3	7.7
60°-70°	849.1	5.3
70°-80°	442.2	2.8
80°-90°	130.8	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°	8287.6	51.9
0°-40°	11572.3	72.4
0°-60°	14553.0	91.1
0°-90°	15975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15975.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14171	
5°	13759	###
15°	10718	3023
25°	8823	4006
35°	5283	3285
45°	2158	1749
55°	1354	1231
65°	850	849
75°	421	442
85°	120	131
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14170.6
1°	14212.3
2°	14193.7
3°	14110.5
4°	13967.3
5°	13759.2
6°	13500.5
7°	13190.8
8°	12858.0
9°	12502.1
10°	12160.1
11°	11832.0
12°	11499.1
13°	11221.8
14°	10958.5
15°	10718.1
16°	10491.6
17°	10283.7
18°	10089.5
19°	9895.4
20°	9710.5
21°	9530.3
22°	9373.2
23°	9211.3
24°	9021.9
25°	8823.1
26°	8596.7
27°	8342.5
28°	8055.9
29°	7737.0
30°	7371.8
31°	6988.2
32°	6586.2
33°	6156.3
34°	5726.5
35°	5282.7
37.5°	4233.6
40°	3318.5
42.5°	2620.6
45°	2158.4
47.5°	1853.4
50°	1663.9
52.5°	1497.5
55°	1354.2
57.5°	1266.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	1118.5
62.5°	975.2
65°	850.4
67.5°	739.5
70°	619.3
72.5°	517.6
75°	420.6
77.5°	305.0
80°	249.6
82.5°	180.3
85°	120.2
87.5°	55.4
90°	0.0

(END OF REPORT)