

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: P250656

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150850 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14724.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

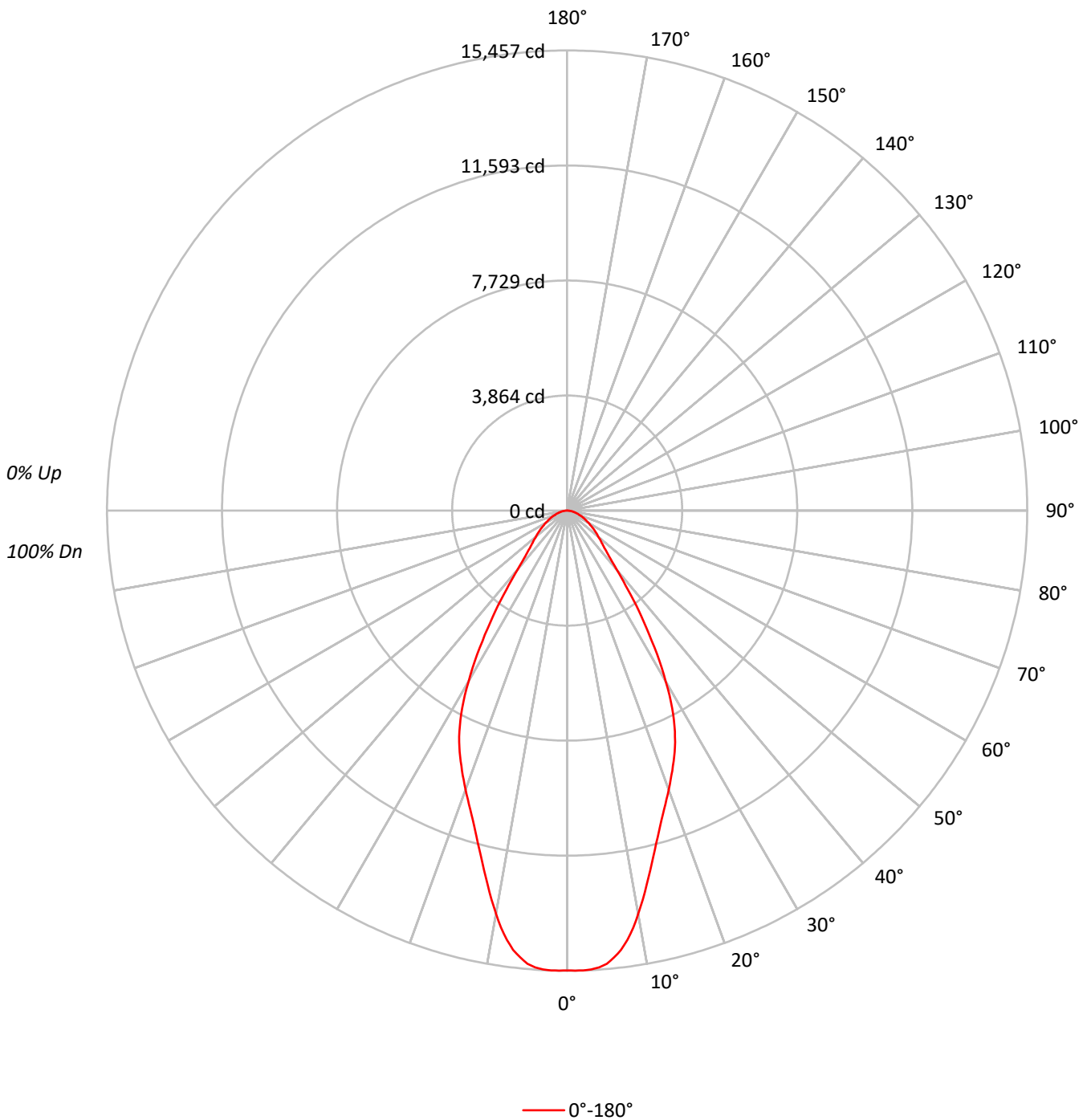
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250656

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250656

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0MW

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	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	476344
5°	472923
10°	430881
15°	369413
20°	327303
25°	292046
30°	235870
35°	163775
40°	103831
45°	77036
50°	65814
55°	57842
60°	51571
65°	46274
70°	39823
75°	36386
80°	34202
85°	29932



TEST NUMBER: P250656

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1410.1	9.6
10°-20°	3253.7	22.1
20°-30°	3877.9	26.3
30°-40°	2737.3	18.6
40°-50°	1413.6	9.6
50°-60°	970.1	6.6
60°-70°	630.7	4.3
70°-80°	330.2	2.2
80°-90°	100.3	0.7
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°	8541.8	58.0
0°-40°	11279.1	76.6
0°-60°	13662.8	92.8
0°-90°	14724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14724.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15448	
5°	15278	###
15°	11572	3254
25°	8584	3878
35°	4351	2737
45°	1766	1414
55°	1076	970
65°	634	631
75°	305	330
85°	85	100
90°	0	



TEST NUMBER: P250656

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	15447.5
1°	15456.9
2°	15456.9
3°	15433.3
4°	15381.7
5°	15278.2
6°	15095.1
7°	14869.6
8°	14559.4
9°	14183.7
10°	13760.9
11°	13314.5
12°	12849.2
13°	12403.1
14°	11970.8
15°	11571.6
16°	11200.4
17°	10857.4
18°	10547.3
19°	10256.0
20°	9974.1
21°	9696.9
22°	9424.5
23°	9152.0
24°	8874.8
25°	8583.5
26°	8254.5
27°	7897.4
28°	7507.6
29°	7094.2
30°	6624.3
31°	6168.7
32°	5703.4
33°	5224.3
34°	4782.6
35°	4350.6
37.5°	3349.8
40°	2579.4
42.5°	2076.6
45°	1766.5
47.5°	1545.6
50°	1371.9
52.5°	1221.6
55°	1075.9
57.5°	944.4



TEST NUMBER: P250656

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBN0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	836.2
62.5°	728.3
65°	634.2
67.5°	549.6
70°	441.7
72.5°	380.6
75°	305.4
77.5°	248.9
80°	192.6
82.5°	140.9
85°	84.6
87.5°	46.9
90°	0.0

(END OF REPORT)