

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: P251137

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70850 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7114.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

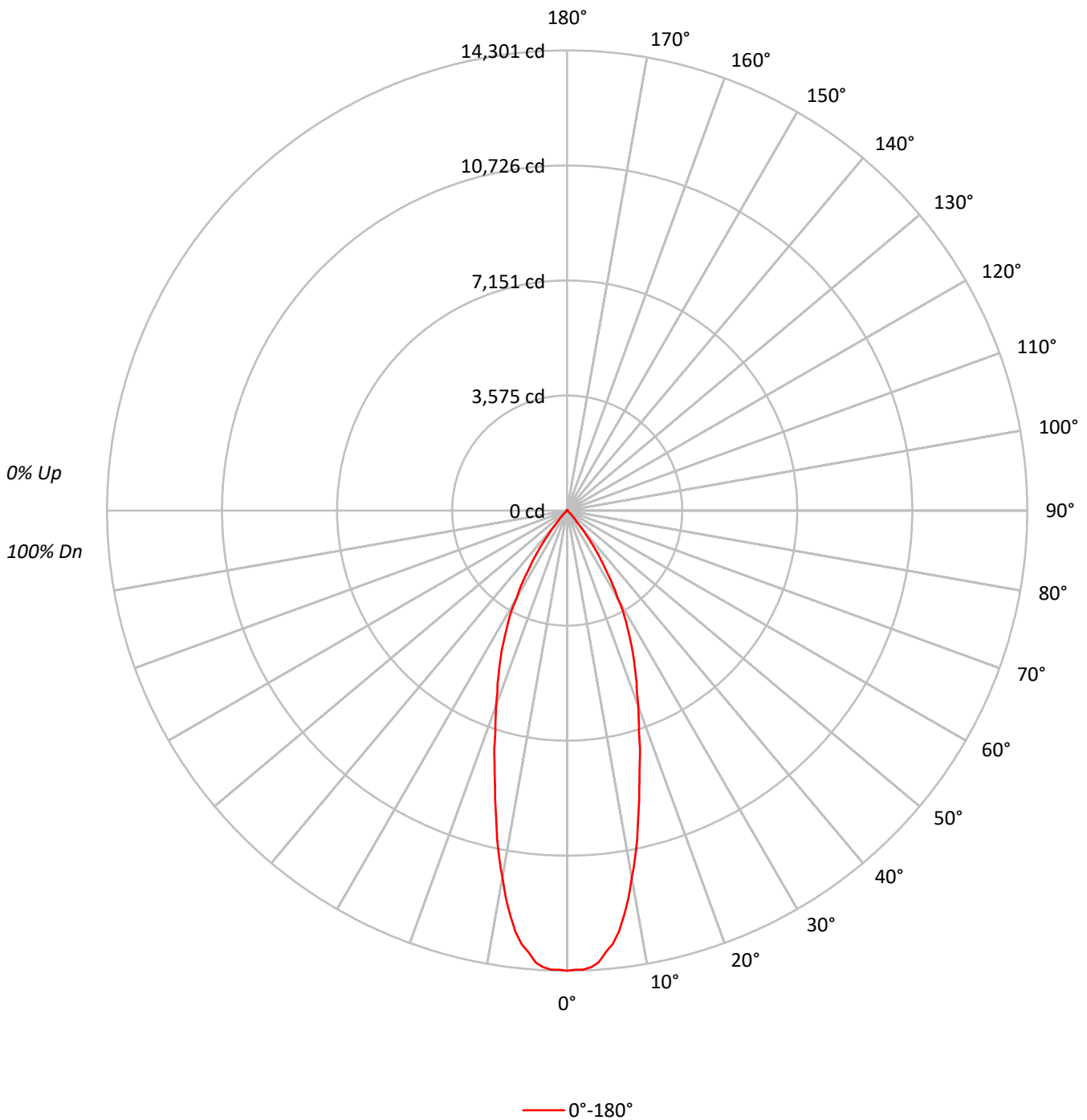
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251137

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0WH

Luminous Intensity Polar Plot





TEST NUMBER: P251137

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0WH

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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74		80	76	74		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	440987
5°	426458
10°	362675
15°	276808
20°	211551
25°	163935
30°	111812
35°	65693
40°	20087
45°	7902
50°	120
55°	134
60°	154
65°	365
70°	676
75°	596
80°	444
85°	2654



TEST NUMBER: P251137

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1249.0	17.6
10°-20°	2420.2	34.0
20°-30°	2179.0	30.6
30°-40°	1078.1	15.2
40°-50°	164.0	2.3
50°-60°	6.7	0.1
60°-70°	8.7	0.1
70°-80°	3.3	0.0
80°-90°	5.1	0.1
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°	5848.2	82.2
0°-40°	6926.3	97.4
0°-60°	7097.0	99.8
0°-90°	7114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7114.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14301	
5°	13777	###
15°	8671	2420
25°	4818	2179
35°	1745	1078
45°	181	164
55°	2	7
65°	5	9
75°	5	3
85°	8	5
90°	0	



TEST NUMBER: P251137

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	14300.9
1°	14271.1
2°	14278.5
3°	14206.5
4°	14075.0
5°	13777.1
6°	13548.7
7°	13186.3
8°	12699.8
9°	12193.3
10°	11582.6
11°	11036.5
12°	10450.7
13°	9802.8
14°	9244.3
15°	8670.8
16°	8181.8
17°	7749.9
18°	7218.7
19°	6828.9
20°	6446.7
21°	6049.5
22°	5759.1
23°	5421.5
24°	5111.1
25°	4818.2
26°	4473.2
27°	4162.9
28°	3884.9
29°	3579.5
30°	3140.2
31°	2892.0
32°	2579.2
33°	2236.6
34°	1975.9
35°	1745.1
37.5°	1104.6
40°	499.0
42.5°	340.1
45°	181.2
47.5°	101.7
50°	2.5
52.5°	10.0
55°	2.5
57.5°	14.9



TEST NUMBER: P251137

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBN0WH

CANDELA DISTRIBUTION (continued):

	0°
60°	2.5
62.5°	12.4
65°	5.0
67.5°	12.4
70°	7.5
72.5°	2.5
75°	5.0
77.5°	0.0
80°	2.5
82.5°	10.0
85°	7.5
87.5°	0.0
90°	0.0

(END OF REPORT)