

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: P250921

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70850 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7645.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

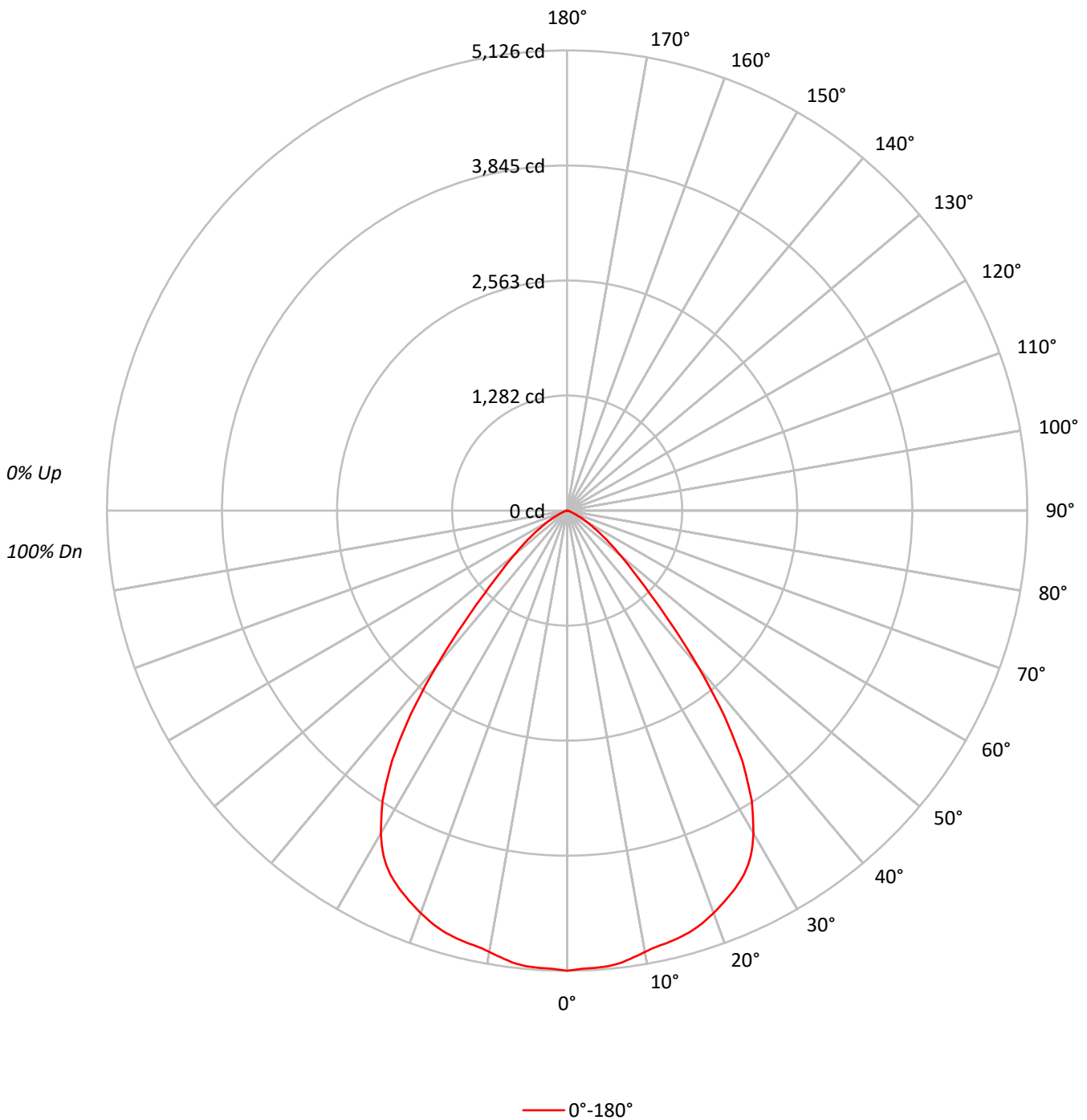
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250921

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P250921

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBW0H

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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65		73	68	64		71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59		68	62	58		66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49		58	53	49		57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46		55	49	45		54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42		51	46	42		50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	158076
5°	157720
10°	156294
15°	156881
20°	156545
25°	155021
30°	147754
35°	127930
40°	91260
45°	56081
50°	36997
55°	24472
60°	15671
65°	8544
70°	4183
75°	2109
80°	1172
85°	778



TEST NUMBER: P250921

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.0	6.3
10°-20°	1386.1	18.1
20°-30°	2085.9	27.3
30°-40°	2065.1	27.0
40°-50°	1049.3	13.7
50°-60°	422.8	5.5
60°-70°	128.1	1.7
70°-80°	22.0	0.3
80°-90°	2.7	0.0
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°	3955.0	51.7
0°-40°	6020.1	78.7
0°-60°	7492.2	98.0
0°-90°	7645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7645.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5126	
5°	5095	483
15°	4914	1386
25°	4556	2086
35°	3398	2065
45°	1286	1049
55°	455	423
65°	117	128
75°	18	22
85°	2	3
90°	0	



TEST NUMBER: P250921

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBW0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	5126.3
1°	5115.2
2°	5106.4
3°	5104.2
4°	5102.0
5°	5095.3
6°	5086.5
7°	5068.8
8°	5042.3
9°	5018.0
10°	4991.5
11°	4969.4
12°	4953.9
13°	4942.9
14°	4929.6
15°	4914.2
16°	4894.3
17°	4870.0
18°	4841.2
19°	4808.1
20°	4770.5
21°	4730.8
22°	4691.0
23°	4649.0
24°	4604.8
25°	4556.2
26°	4503.2
27°	4434.7
28°	4355.1
29°	4260.1
30°	4149.6
32.5°	3827.0
35°	3398.4
37.5°	2863.6
40°	2267.1
42.5°	1712.4
45°	1286.0
47.5°	983.3
50°	771.2
52.5°	598.8
55°	455.2
57.5°	338.1
60°	254.1
62.5°	181.2
65°	117.1



TEST NUMBER: P250921

CATALOG NUMBER: LSR8B70D010 EC8B70850 8LBW0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	72.9
70°	46.4
72.5°	28.7
75°	17.7
77.5°	11.0
80°	6.6
82.5°	4.4
85°	2.2
87.5°	0.0
90°	0.0

(END OF REPORT)