

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: P250931

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250931
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 EC8B70950 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6960.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

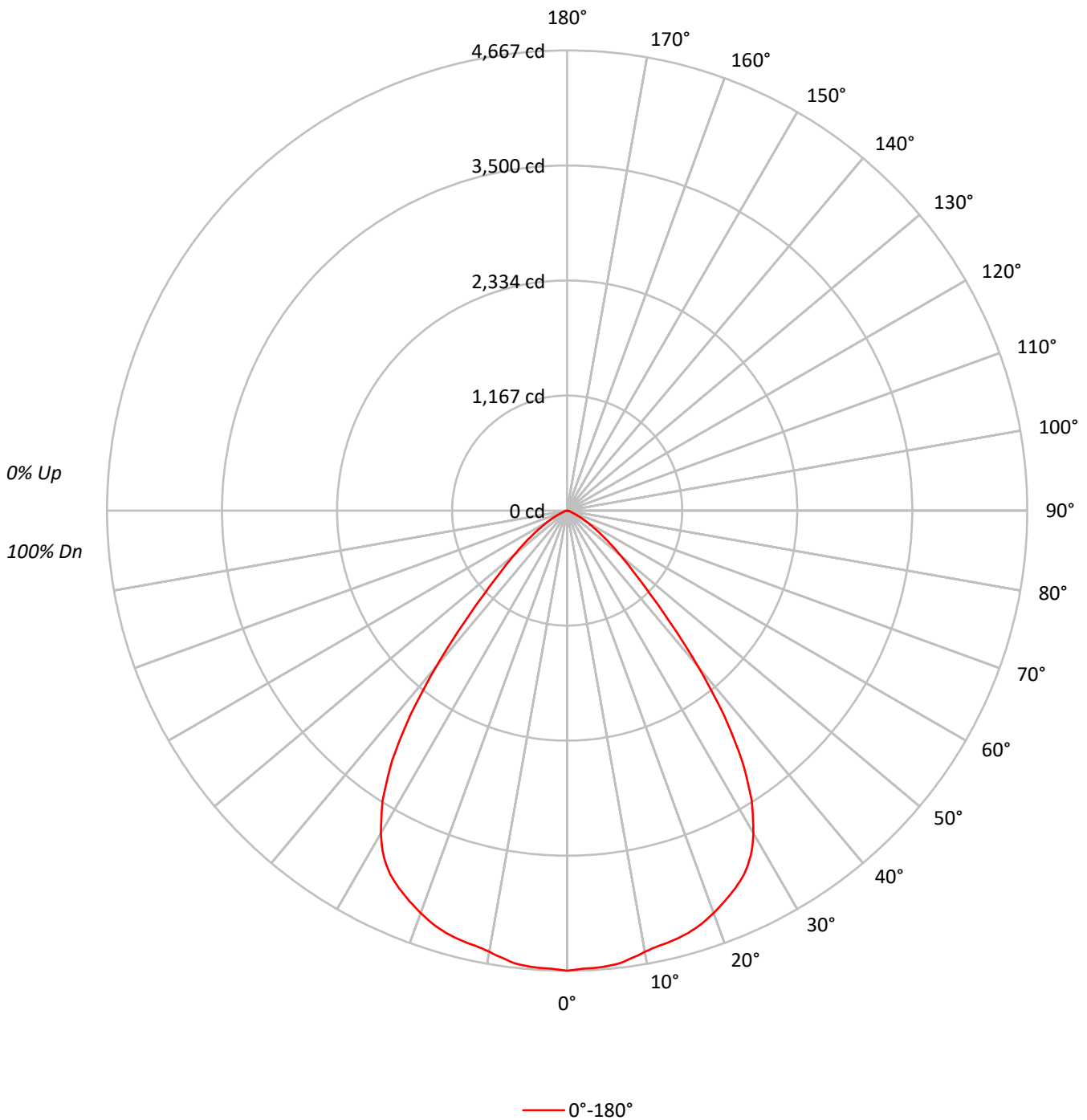
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250931

CATALOG NUMBER: LSR8B70D010 EC8B70950 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P250931

CATALOG NUMBER: LSR8B70D010 EC8B70950 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°	143913
5°	143590
10°	142288
15°	142822
20°	142520
25°	141132
30°	134515
35°	116467
40°	83080
45°	51058
50°	33682
55°	22279
60°	14265
65°	7778
70°	3805
75°	1918
80°	1065
85°	708



TEST NUMBER: P250931

CATALOG NUMBER: LSR8B70D010 EC8B70950 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.8	6.3
10°-20°	1261.9	18.1
20°-30°	1899.0	27.3
30°-40°	1880.1	27.0
40°-50°	955.3	13.7
50°-60°	384.9	5.5
60°-70°	116.6	1.7
70°-80°	20.1	0.3
80°-90°	2.4	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°	3600.6	51.7
0°-40°	5480.7	78.7
0°-60°	6820.9	98.0
0°-90°	6960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6960.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4667	
5°	4639	440
15°	4474	1262
25°	4148	1899
35°	3094	1880
45°	1171	955
55°	414	385
65°	107	117
75°	16	20
85°	2	2
90°	0	



TEST NUMBER: P250931

CATALOG NUMBER: LSR8B70D010 EC8B70950 8LBW0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	4667.0
1°	4656.9
2°	4648.9
3°	4646.8
4°	4644.8
5°	4638.8
6°	4630.7
7°	4614.7
8°	4590.5
9°	4568.4
10°	4544.2
11°	4524.1
12°	4510.1
13°	4500.0
14°	4487.9
15°	4473.8
16°	4455.7
17°	4433.6
18°	4407.5
19°	4377.3
20°	4343.1
21°	4306.9
22°	4270.7
23°	4232.4
24°	4192.2
25°	4148.0
26°	4099.7
27°	4037.3
28°	3964.9
29°	3878.4
30°	3777.8
32.5°	3484.1
35°	3093.9
37.5°	2607.1
40°	2063.9
42.5°	1559.0
45°	1170.8
47.5°	895.2
50°	702.1
52.5°	545.1
55°	414.4
57.5°	307.8
60°	231.3
62.5°	165.0
65°	106.6



TEST NUMBER: P250931

CATALOG NUMBER: LSR8B70D010 EC8B70950 8LBW0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	66.4
70°	42.2
72.5°	26.2
75°	16.1
77.5°	10.1
80°	6.0
82.5°	4.0
85°	2.0
87.5°	0.0
90°	0.0

(END OF REPORT)