

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: P250913

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250913
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 EC8B70827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7080.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

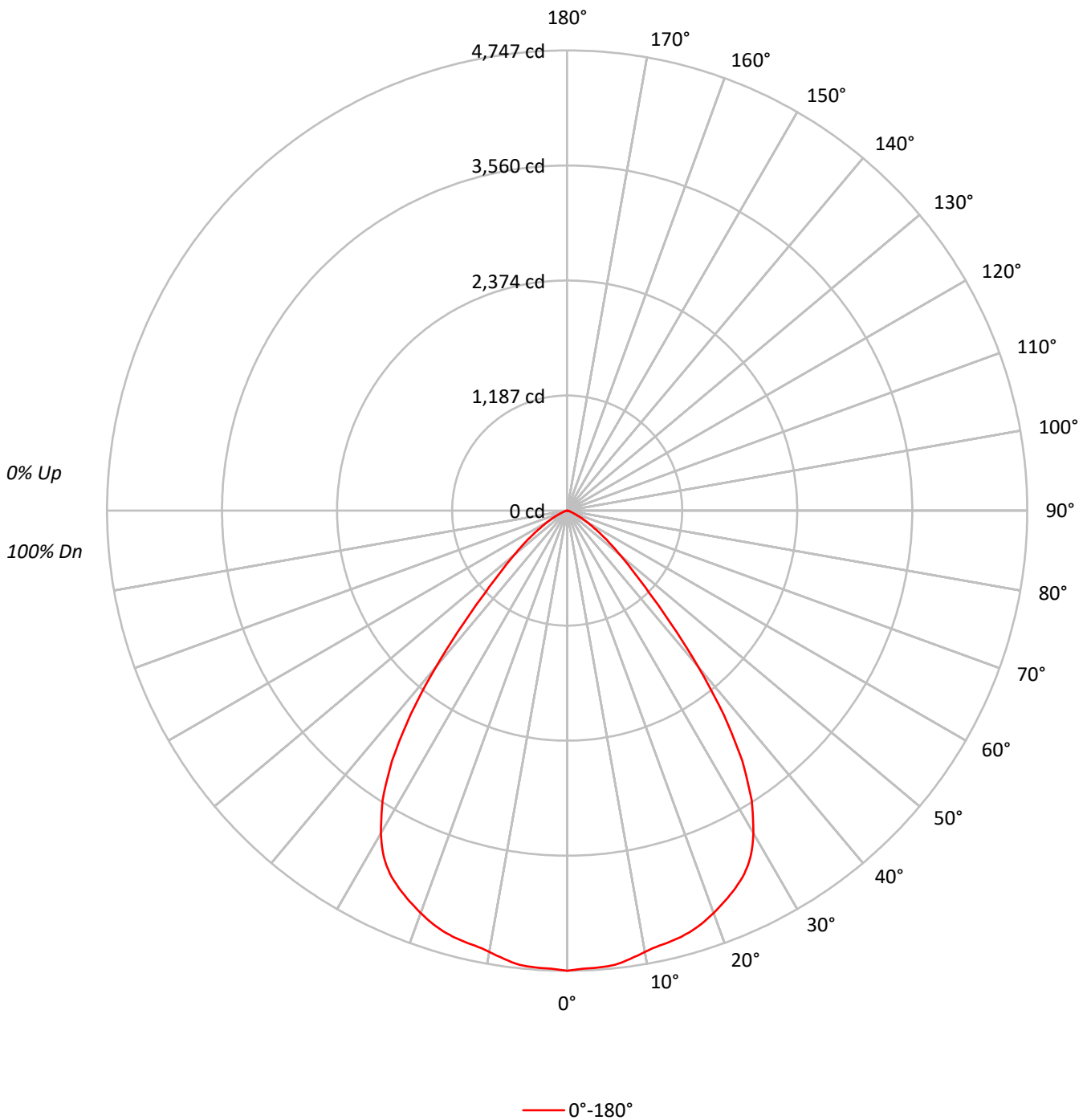
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	146392
5°	146066
10°	144743
15°	145287
20°	144978
25°	143565
30°	136837
35°	118474
40°	84513
45°	51934
50°	34262
55°	22660
60°	14512
65°	7917
70°	3877
75°	1954
80°	1083
85°	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.3	6.3
10°-20°	1283.6	18.1
20°-30°	1931.7	27.3
30°-40°	1912.5	27.0
40°-50°	971.8	13.7
50°-60°	391.5	5.5
60°-70°	118.6	1.7
70°-80°	20.4	0.3
80°-90°	2.5	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°	3662.7	51.7
0°-40°	5575.2	78.7
0°-60°	6938.5	98.0
0°-90°	7080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7080.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4747	
5°	4719	447
15°	4551	1284
25°	4220	1932
35°	3147	1912
45°	1191	972
55°	422	391
65°	108	119
75°	16	20
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4747.4
1°	4737.2
2°	4729.0
3°	4727.0
4°	4724.9
5°	4718.8
6°	4710.6
7°	4694.2
8°	4669.7
9°	4647.2
10°	4622.6
11°	4602.1
12°	4587.8
13°	4577.6
14°	4565.3
15°	4551.0
16°	4532.6
17°	4510.1
18°	4483.4
19°	4452.8
20°	4418.0
21°	4381.1
22°	4344.3
23°	4305.4
24°	4264.5
25°	4219.5
26°	4170.4
27°	4106.9
28°	4033.3
29°	3945.3
30°	3843.0
32.5°	3544.2
35°	3147.2
37.5°	2652.0
40°	2099.5
42.5°	1585.9
45°	1190.9
47.5°	910.6
50°	714.2
52.5°	554.5
55°	421.5
57.5°	313.1
60°	235.3
62.5°	167.8
65°	108.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	67.5
70°	43.0
72.5°	26.6
75°	16.4
77.5°	10.2
80°	6.1
82.5°	4.1
85°	2.0
87.5°	0.0
90°	0.0

(END OF REPORT)