

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: P251461

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70827 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7078.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

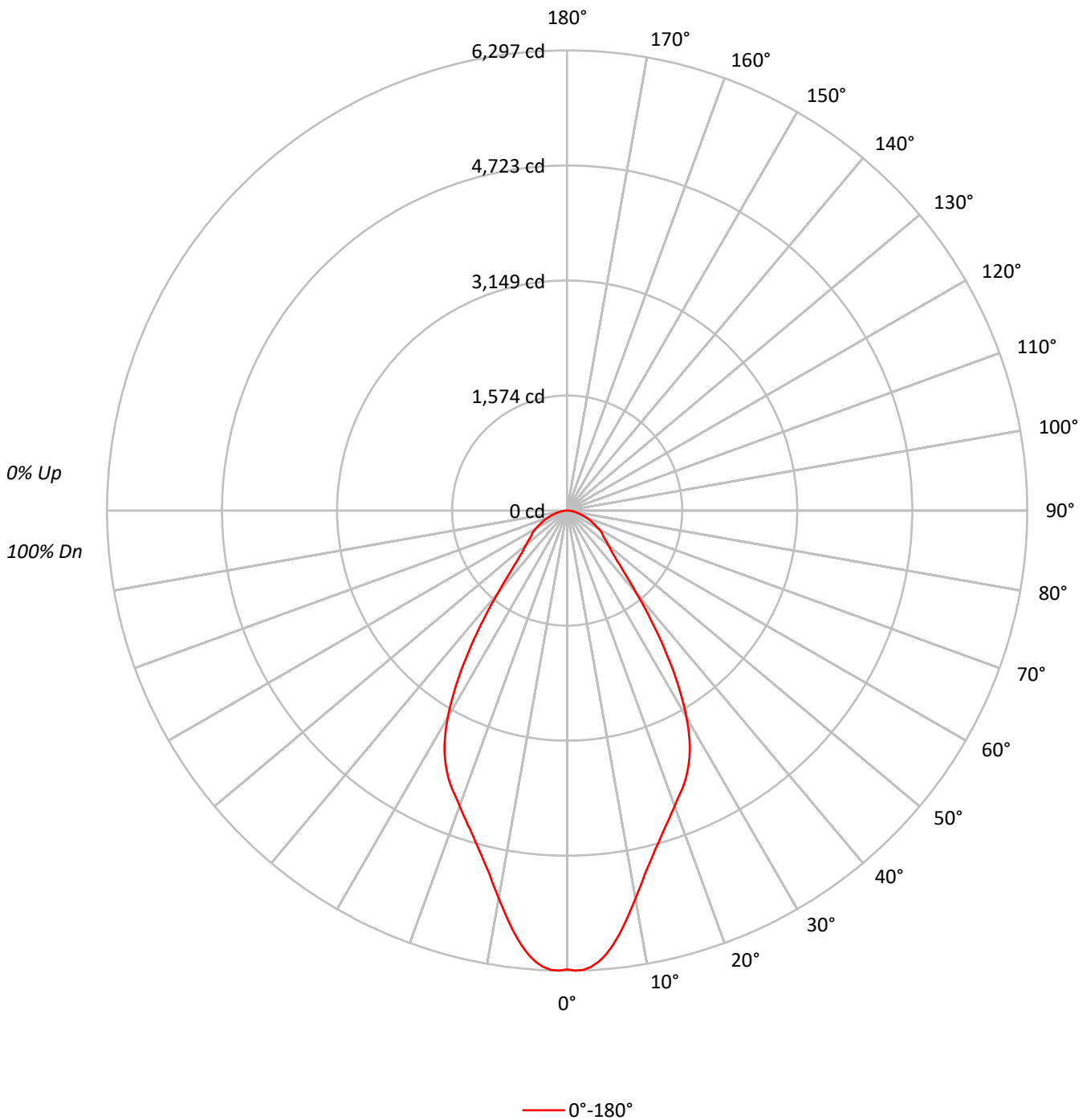
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	193615
5°	188706
10°	168700
15°	151601
20°	141178
25°	133004
30°	116288
35°	88114
40°	59177
45°	41712
50°	35375
55°	32257
60°	30565
65°	27500
70°	24740
75°	22244
80°	19587
85°	18893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.0	7.9
10°-20°	1339.2	18.9
20°-30°	1774.7	25.1
30°-40°	1455.2	20.6
40°-50°	775.2	11.0
50°-60°	545.6	7.7
60°-70°	376.2	5.3
70°-80°	195.9	2.8
80°-90°	58.0	0.8
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°	3671.9	51.9
0°-40°	5127.1	72.4
0°-60°	6447.9	91.1
0°-90°	7078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7078.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6279	
5°	6096	558
15°	4749	1339
25°	3909	1775
35°	2341	1455
45°	956	775
55°	600	546
65°	377	376
75°	187	196
85°	53	58
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6278.8
1°	6296.6
2°	6289.0
3°	6251.7
4°	6188.0
5°	6096.3
6°	5981.8
7°	5844.2
8°	5696.6
9°	5539.5
10°	5387.7
11°	5242.5
12°	5094.9
13°	4971.9
14°	4855.2
15°	4748.8
16°	4648.4
17°	4555.9
18°	4470.1
19°	4384.4
20°	4302.2
21°	4222.2
22°	4152.6
23°	4081.2
24°	3997.4
25°	3909.1
26°	3809.0
27°	3696.1
28°	3568.9
29°	3427.9
30°	3265.9
31°	3096.1
32°	2917.8
33°	2727.7
34°	2536.8
35°	2340.7
37.5°	1875.6
40°	1470.1
42.5°	1161.0
45°	956.5
47.5°	821.5
50°	737.4
52.5°	663.7
55°	600.0
57.5°	561.0



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CANDELA DISTRIBUTION (continued):

	0°
60°	495.6
62.5°	432.1
65°	376.9
67.5°	327.7
70°	274.4
72.5°	229.1
75°	186.7
77.5°	135.1
80°	110.3
82.5°	79.8
85°	53.4
87.5°	24.8
90°	0.0

(END OF REPORT)