

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: P251479

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251479  
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 EC8B70950 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6957.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

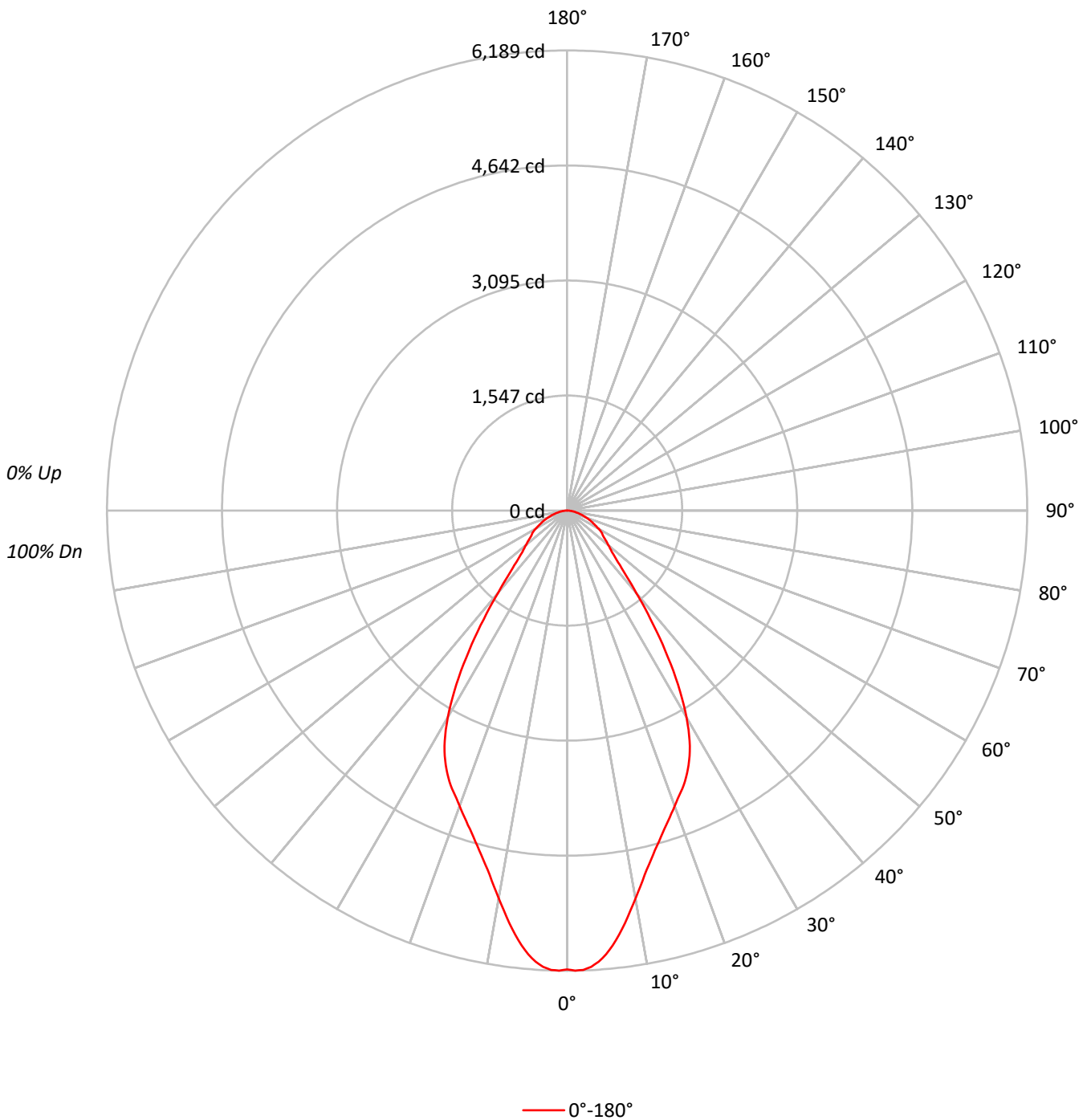
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	190306
5°	185480
10°	165816
15°	149009
20°	138766
25°	130731
30°	114301
35°	86608
40°	58167
45°	41001
50°	34771
55°	31703
60°	30047
65°	27026
70°	24316
75°	21863
80°	19250
85°	18539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.4	7.9
10°-20°	1316.3	18.9
20°-30°	1744.3	25.1
30°-40°	1430.3	20.6
40°-50°	761.9	11.0
50°-60°	536.3	7.7
60°-70°	369.8	5.3
70°-80°	192.6	2.8
80°-90°	57.0	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°	3609.1	51.9
0°-40°	5039.4	72.4
0°-60°	6337.7	91.1
0°-90°	6957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6172	
5°	5992	548
15°	4668	1316
25°	3842	1744
35°	2301	1430
45°	940	762
55°	590	536
65°	370	370
75°	184	193
85°	52	57
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6171.5
1°	6189.0
2°	6181.5
3°	6144.8
4°	6082.2
5°	5992.1
6°	5879.5
7°	5744.3
8°	5599.2
9°	5444.8
10°	5295.6
11°	5152.9
12°	5007.8
13°	4886.9
14°	4772.2
15°	4667.6
16°	4568.9
17°	4478.0
18°	4393.7
19°	4309.4
20°	4228.7
21°	4150.0
22°	4081.6
23°	4011.4
24°	3929.0
25°	3842.3
26°	3743.8
27°	3632.9
28°	3507.9
29°	3369.3
30°	3210.1
31°	3043.2
32°	2868.0
33°	2681.1
34°	2493.4
35°	2300.7
37.5°	1843.5
40°	1445.0
42.5°	1141.2
45°	940.2
47.5°	807.4
50°	724.8
52.5°	652.4
55°	589.7
57.5°	551.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	487.2
62.5°	424.7
65°	370.4
67.5°	322.1
70°	269.7
72.5°	225.2
75°	183.5
77.5°	132.8
80°	108.4
82.5°	78.5
85°	52.4
87.5°	24.3
90°	0.0

(END OF REPORT)