

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: P251469

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251469  
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 EC8B70850 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7641.9 lumens  
Efficiency: N/A  
Efficacy: 100.7 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

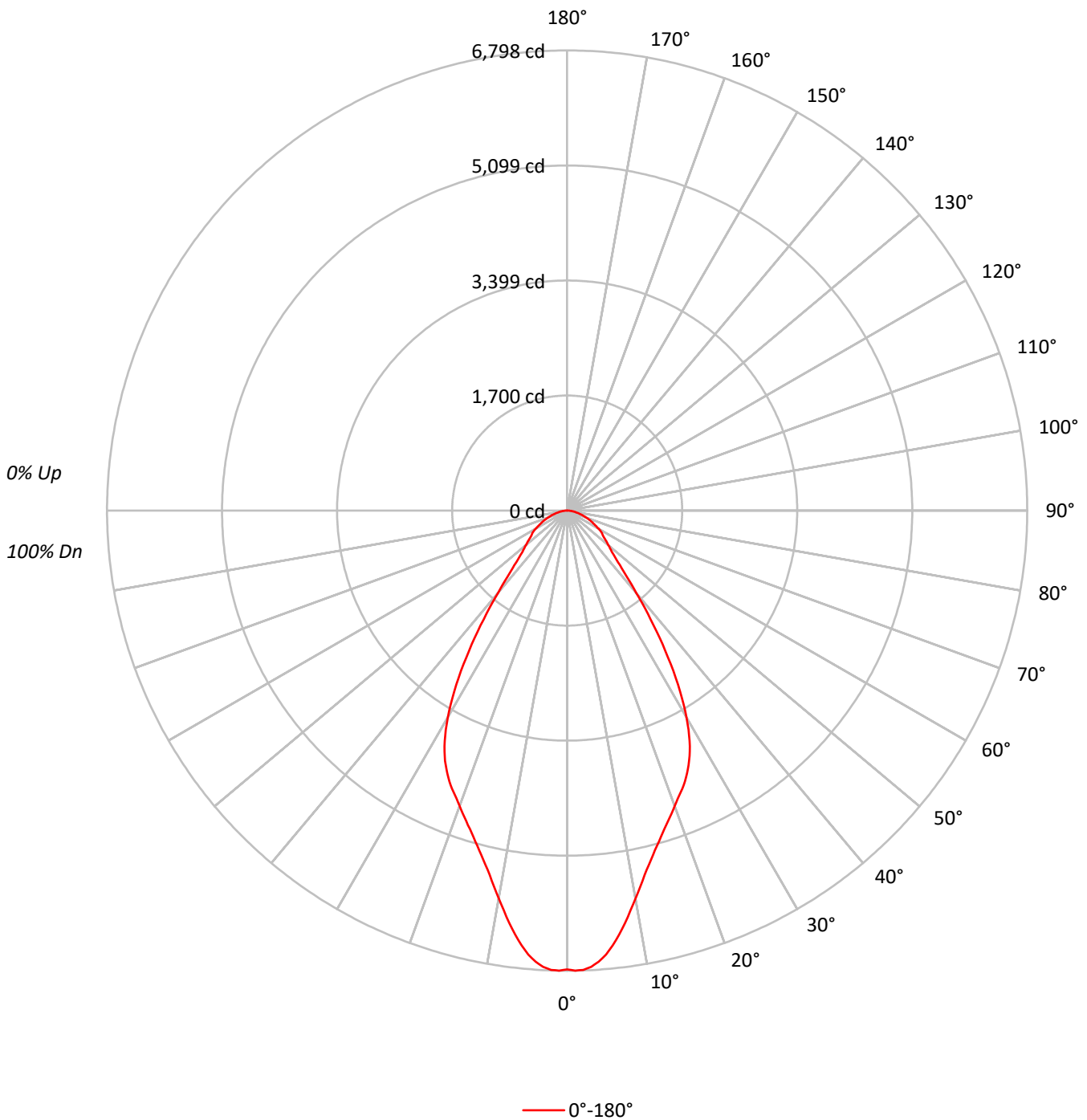
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	209042
5°	203743
10°	182142
15°	163681
20°	152430
25°	143602
30°	125553
35°	95134
40°	63895
45°	45035
50°	38196
55°	34827
60°	33001
65°	29689
70°	26705
75°	24019
80°	21150
85°	20379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.4	7.9
10°-20°	1445.9	18.9
20°-30°	1916.1	25.1
30°-40°	1571.2	20.6
40°-50°	837.0	11.0
50°-60°	589.1	7.7
60°-70°	406.2	5.3
70°-80°	211.5	2.8
80°-90°	62.6	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°	3964.5	51.9
0°-40°	5535.6	72.4
0°-60°	6961.7	91.1
0°-90°	7641.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7641.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6779	
5°	6582	602
15°	5127	1446
25°	4221	1916
35°	2527	1571
45°	1033	837
55°	648	589
65°	407	406
75°	202	211
85°	58	63
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6779.1
1°	6798.3
2°	6790.1
3°	6749.9
4°	6681.1
5°	6582.1
6°	6458.4
7°	6309.8
8°	6150.5
9°	5980.9
10°	5817.0
11°	5660.2
12°	5500.9
13°	5368.1
14°	5242.1
15°	5127.2
16°	5018.8
17°	4918.9
18°	4826.3
19°	4733.8
20°	4645.1
21°	4558.7
22°	4483.5
23°	4406.4
24°	4315.9
25°	4220.6
26°	4112.5
27°	3990.6
28°	3853.3
29°	3701.0
30°	3526.1
31°	3342.8
32°	3150.4
33°	2945.1
34°	2738.9
35°	2527.2
37.5°	2025.0
40°	1587.3
42.5°	1253.6
45°	1032.7
47.5°	886.9
50°	796.2
52.5°	716.6
55°	647.8
57.5°	605.7



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	535.1
62.5°	466.5
65°	406.9
67.5°	353.8
70°	296.2
72.5°	247.3
75°	201.6
77.5°	145.8
80°	119.1
82.5°	86.2
85°	57.6
87.5°	26.7
90°	0.0

(END OF REPORT)