

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: P251465

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251465  
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 EC8B70835 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7545.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

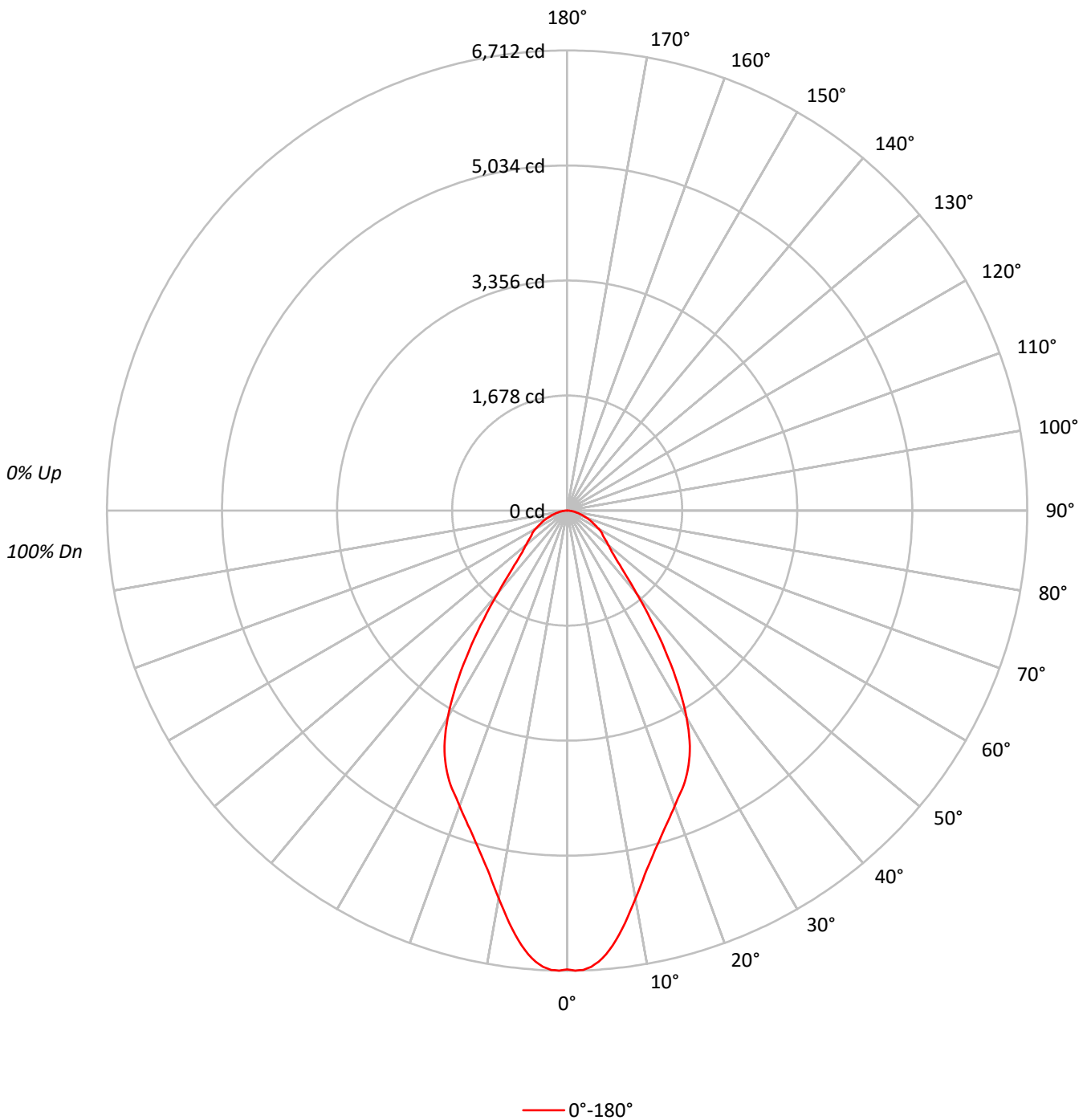
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	206391
5°	201155
10°	179831
15°	161603
20°	150494
25°	141778
30°	123961
35°	93930
40°	63082
45°	44464
50°	37711
55°	34386
60°	32582
65°	29310
70°	26372
75°	23721
80°	20883
85°	20132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.8	7.9
10°-20°	1427.6	18.9
20°-30°	1891.8	25.1
30°-40°	1551.2	20.6
40°-50°	826.3	11.0
50°-60°	581.6	7.7
60°-70°	401.1	5.3
70°-80°	208.8	2.8
80°-90°	61.8	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°	3914.1	51.9
0°-40°	5465.4	72.4
0°-60°	6873.3	91.1
0°-90°	7545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6693	
5°	6498	595
15°	5062	1428
25°	4167	1892
35°	2495	1551
45°	1020	826
55°	640	582
65°	402	401
75°	199	209
85°	57	62
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6693.1
1°	6712.0
2°	6703.9
3°	6664.2
4°	6596.3
5°	6498.5
6°	6376.5
7°	6229.8
8°	6072.5
9°	5905.0
10°	5743.2
11°	5588.4
12°	5431.1
13°	5299.9
14°	5175.6
15°	5062.1
16°	4955.1
17°	4856.5
18°	4765.1
19°	4673.7
20°	4586.1
21°	4500.8
22°	4426.5
23°	4350.5
24°	4261.1
25°	4167.0
26°	4060.3
27°	3940.0
28°	3804.3
29°	3654.0
30°	3481.4
31°	3300.4
32°	3110.4
33°	2907.7
34°	2704.1
35°	2495.2
37.5°	1999.3
40°	1567.1
42.5°	1237.6
45°	1019.6
47.5°	875.7
50°	786.1
52.5°	707.5
55°	639.6
57.5°	598.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	528.3
62.5°	460.6
65°	401.7
67.5°	349.4
70°	292.5
72.5°	244.2
75°	199.1
77.5°	144.0
80°	117.6
82.5°	85.1
85°	56.9
87.5°	26.4
90°	0.0

(END OF REPORT)