

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: P251473

Luminaire Tested: **LSR8B70D010 EC8B70930 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251473  
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 EC8B70930 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6987.1 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

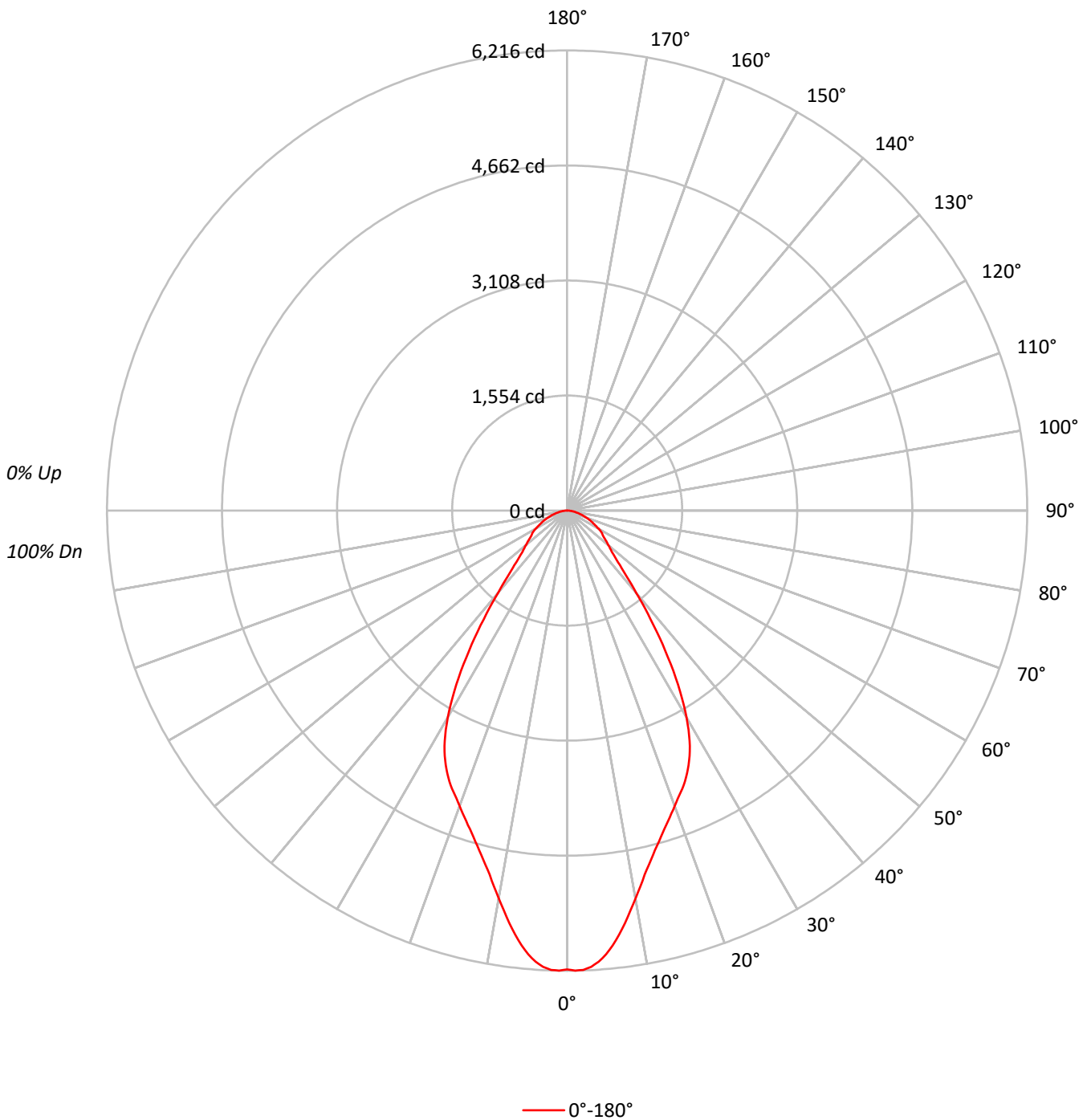
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	191130
5°	186285
10°	166536
15°	149654
20°	139367
25°	131296
30°	114796
35°	86984
40°	58417
45°	41176
50°	34924
55°	31843
60°	30176
65°	27150
70°	24415
75°	21958
80°	19321
85°	18646



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.8	7.9
10°-20°	1322.0	18.9
20°-30°	1751.9	25.1
30°-40°	1436.6	20.6
40°-50°	765.2	11.0
50°-60°	538.6	7.7
60°-70°	371.4	5.3
70°-80°	193.3	2.8
80°-90°	57.2	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°	3624.8	51.9
0°-40°	5061.3	72.4
0°-60°	6365.2	91.1
0°-90°	6987.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6987.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6198	
5°	6018	551
15°	4688	1322
25°	3859	1752
35°	2311	1437
45°	944	765
55°	592	539
65°	372	371
75°	184	193
85°	53	57
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6198.2
1°	6215.8
2°	6208.3
3°	6171.6
4°	6108.6
5°	6018.1
6°	5905.1
7°	5769.2
8°	5623.5
9°	5468.5
10°	5318.6
11°	5175.2
12°	5029.6
13°	4908.1
14°	4792.9
15°	4687.8
16°	4588.8
17°	4497.5
18°	4412.8
19°	4328.2
20°	4247.0
21°	4168.1
22°	4099.3
23°	4028.9
24°	3946.1
25°	3858.9
26°	3760.1
27°	3648.7
28°	3523.1
29°	3383.9
30°	3224.0
31°	3056.4
32°	2880.4
33°	2692.8
34°	2504.2
35°	2310.7
37.5°	1851.6
40°	1451.2
42.5°	1146.1
45°	944.2
47.5°	810.9
50°	728.0
52.5°	655.2
55°	592.3
57.5°	553.9



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	489.3
62.5°	426.5
65°	372.1
67.5°	323.5
70°	270.8
72.5°	226.1
75°	184.3
77.5°	133.3
80°	108.8
82.5°	78.8
85°	52.7
87.5°	24.4
90°	0.0

(END OF REPORT)