

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: P251481

Luminaire Tested: **LD8B70D010 ER8B709727 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251481  
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: LD8B70D010 ER8B709727 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5253.0 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

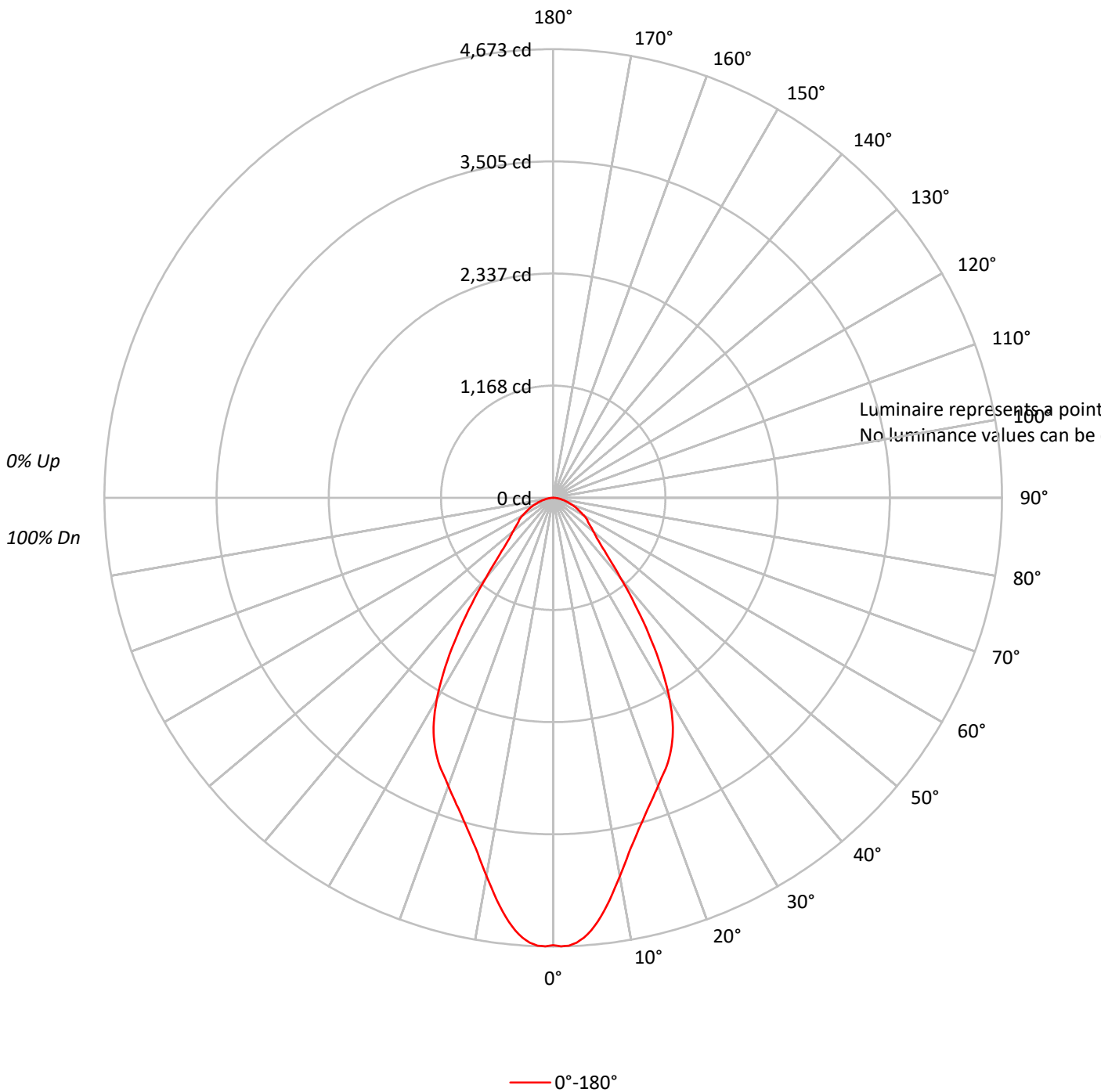
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.1	7.9
10°-20°	993.9	18.9
20°-30°	1317.1	25.1
30°-40°	1080.0	20.6
40°-50°	575.3	11.0
50°-60°	404.9	7.7
60°-70°	279.2	5.3
70°-80°	145.4	2.8
80°-90°	43.0	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°	2725.1	51.9
0°-40°	3805.1	72.4
0°-60°	4785.4	91.1
0°-90°	5253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5253.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4660	
5°	4524	414
15°	3524	994
25°	2901	1317
35°	1737	1080
45°	710	575
55°	445	405
65°	280	279
75°	139	145
85°	40	43
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4659.9
1°	4673.1
2°	4667.4
3°	4639.8
4°	4592.5
5°	4524.4
6°	4439.4
7°	4337.3
8°	4227.8
9°	4111.2
10°	3998.5
11°	3890.7
12°	3781.2
13°	3689.9
14°	3603.4
15°	3524.3
16°	3449.9
17°	3381.2
18°	3317.6
19°	3253.9
20°	3193.0
21°	3133.6
22°	3081.9
23°	3028.9
24°	2966.7
25°	2901.2
26°	2826.8
27°	2743.1
28°	2648.7
29°	2544.0
30°	2423.8
31°	2297.8
32°	2165.5
33°	2024.4
34°	1882.7
35°	1737.2
37.5°	1392.0
40°	1091.1
42.5°	861.7
45°	709.9
47.5°	609.6
50°	547.3
52.5°	492.6
55°	445.3
57.5°	416.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	367.8
62.5°	320.7
65°	279.7
67.5°	243.2
70°	203.6
72.5°	170.0
75°	138.6
77.5°	100.2
80°	81.9
82.5°	59.2
85°	39.6
87.5°	18.4
90°	0.0

(END OF REPORT)