

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 ER8B70927 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 ER8B70927 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: 5909.6 lumens  
Efficiency: N/A  
Efficacy: 77.9 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

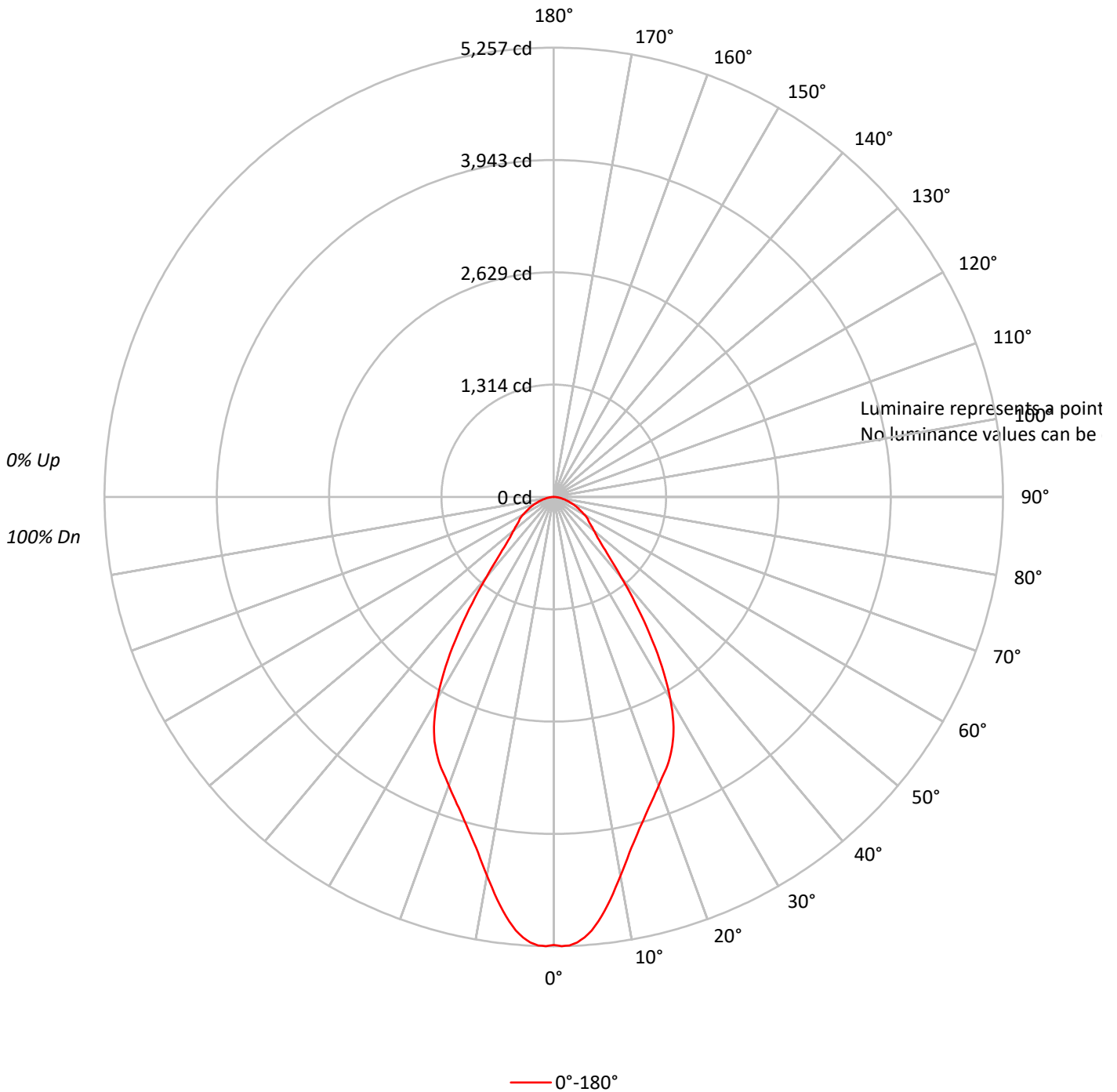
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	465.9	7.9
10°-20°	1118.1	18.9
20°-30°	1481.7	25.1
30°-40°	1215.0	20.6
40°-50°	647.2	11.0
50°-60°	455.6	7.7
60°-70°	314.1	5.3
70°-80°	163.5	2.8
80°-90°	48.4	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°	3065.7	51.9
0°-40°	4280.8	72.4
0°-60°	5383.5	91.1
0°-90°	5909.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5909.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5242	
5°	5090	466
15°	3965	1118
25°	3264	1482
35°	1954	1215
45°	799	647
55°	501	456
65°	315	314
75°	156	164
85°	45	48
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5242.4
1°	5257.2
2°	5250.8
3°	5219.8
4°	5166.6
5°	5090.0
6°	4994.3
7°	4879.5
8°	4756.3
9°	4625.1
10°	4498.3
11°	4377.0
12°	4253.8
13°	4151.1
14°	4053.8
15°	3964.8
16°	3881.1
17°	3803.8
18°	3732.3
19°	3660.6
20°	3592.1
21°	3525.3
22°	3467.1
23°	3407.5
24°	3337.5
25°	3263.8
26°	3180.2
27°	3086.0
28°	2979.8
29°	2862.0
30°	2726.8
31°	2585.0
32°	2436.2
33°	2277.5
34°	2118.0
35°	1954.4
37.5°	1566.0
40°	1227.5
42.5°	969.4
45°	798.6
47.5°	685.8
50°	615.7
52.5°	554.2
55°	501.0
57.5°	468.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	413.8
62.5°	360.8
65°	314.7
67.5°	273.6
70°	229.0
72.5°	191.2
75°	155.9
77.5°	112.7
80°	92.1
82.5°	66.6
85°	44.6
87.5°	20.7
90°	0.0

(END OF REPORT)