

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: P250716

Luminaire Tested: **LD8B90D010 ER8B90830 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90830 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9046.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

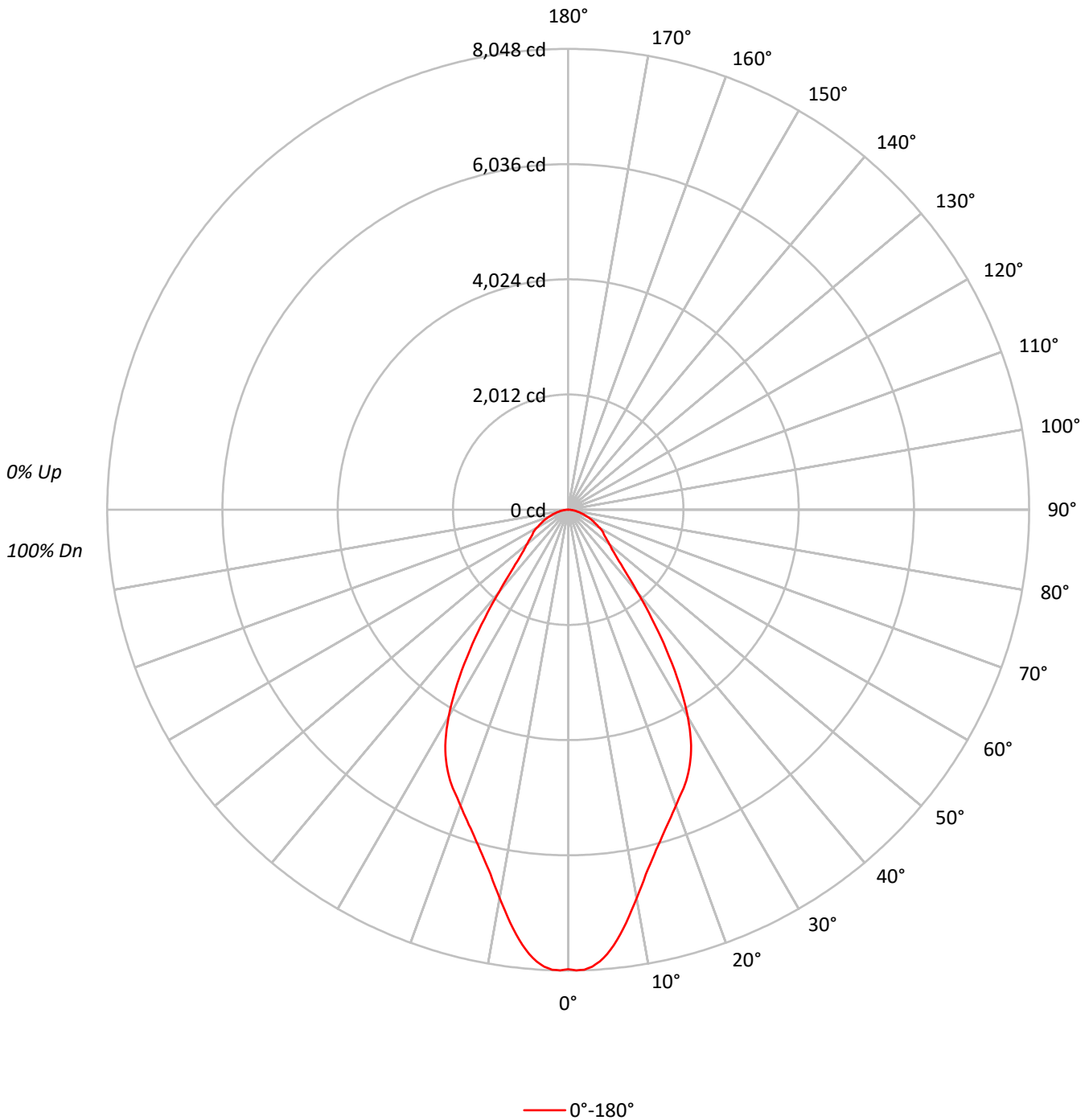
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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):**

	0°
0°	247440
5°	241173
10°	215608
15°	193757
20°	180442
25°	169991
30°	148637
35°	112609
40°	75641
45°	53299
50°	45200
55°	41230
60°	39057
65°	35140
70°	31619
75°	28380
80°	25092
85°	24094



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	713.1	7.9
10°-20°	1711.6	18.9
20°-30°	2268.2	25.1
30°-40°	1860.0	20.6
40°-50°	990.6	11.0
50°-60°	697.2	7.7
60°-70°	480.8	5.3
70°-80°	250.4	2.8
80°-90°	74.1	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°	4693.0	51.9
0°-40°	6552.9	72.4
0°-60°	8240.8	91.1
0°-90°	9046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8024	
5°	7791	713
15°	6069	1712
25°	4996	2268
35°	2991	1860
45°	1222	991
55°	767	697
65°	482	481
75°	238	250
85°	68	74
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8024.3
1°	8047.8
2°	8037.3
3°	7990.2
4°	7909.1
5°	7791.3
6°	7644.8
7°	7469.4
8°	7281.0
9°	7079.4
10°	6885.8
11°	6700.0
12°	6511.5
13°	6354.5
14°	6205.3
15°	6069.3
16°	5941.0
17°	5823.2
18°	5713.3
19°	5603.4
20°	5498.7
21°	5396.6
22°	5307.6
23°	5216.0
24°	5108.7
25°	4996.2
26°	4868.0
27°	4724.0
28°	4561.7
29°	4381.1
30°	4174.4
31°	3957.2
32°	3729.5
33°	3486.1
34°	3242.7
35°	2991.4
37.5°	2397.3
40°	1879.1
42.5°	1483.9
45°	1222.2
47.5°	1049.5
50°	942.2
52.5°	848.0
55°	766.9
57.5°	717.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	633.3
62.5°	552.2
65°	481.6
67.5°	418.7
70°	350.7
72.5°	293.1
75°	238.2
77.5°	172.7
80°	141.3
82.5°	102.1
85°	68.1
87.5°	31.4
90°	0.0

(END OF REPORT)