

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: P250709

Luminaire Tested: **LD8B90D010 ER8B90827 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250709  
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 ER8B90827 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8825.0 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

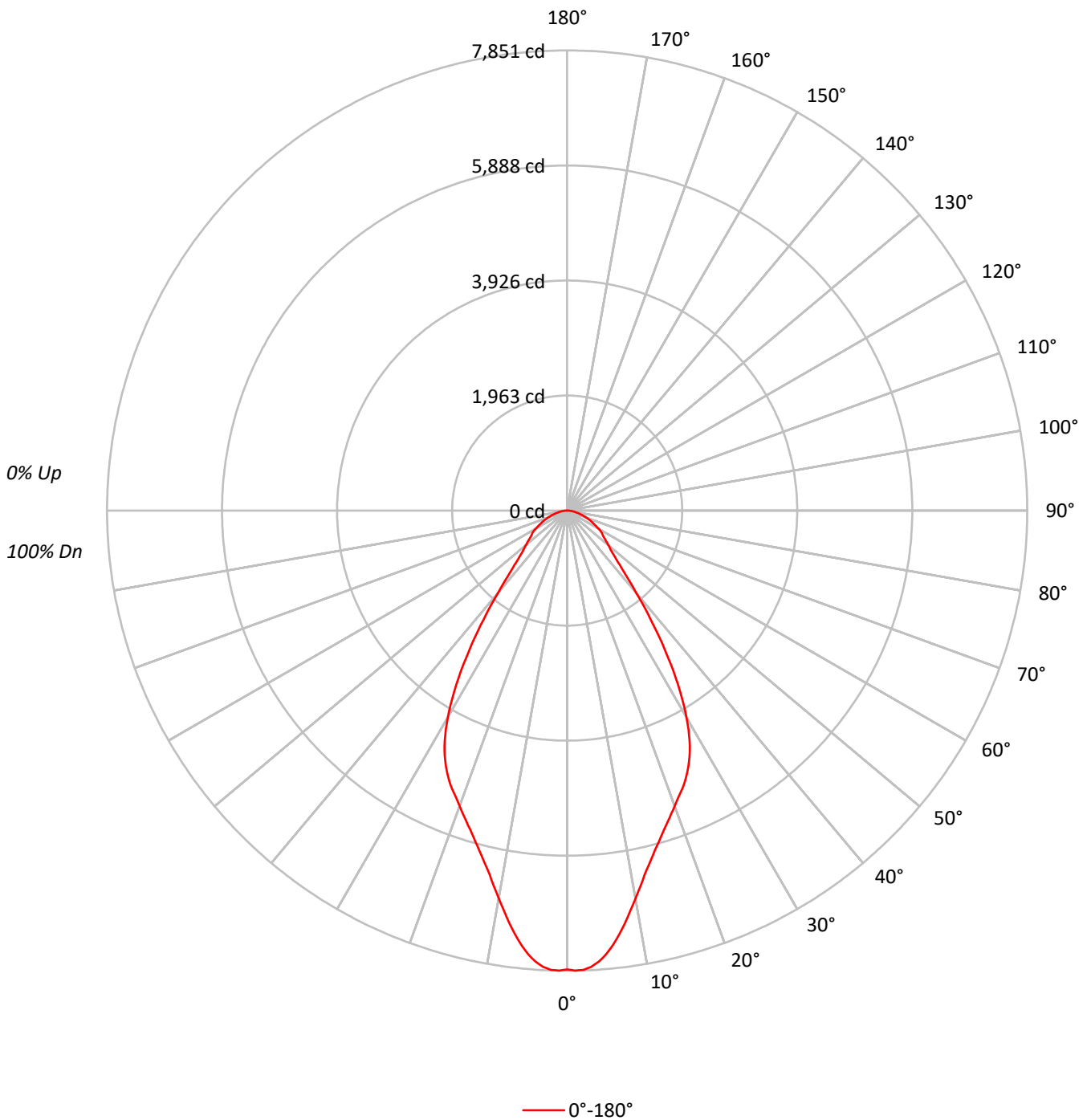
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	241393
5°	235279
10°	210342
15°	189023
20°	176031
25°	165837
30°	145005
35°	109857
40°	73794
45°	52000
50°	44097
55°	40219
60°	38108
65°	34279
70°	30844
75°	27677
80°	24488
85°	23493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	695.7	7.9
10°-20°	1669.8	18.9
20°-30°	2212.8	25.1
30°-40°	1814.5	20.6
40°-50°	966.4	11.0
50°-60°	680.2	7.7
60°-70°	469.0	5.3
70°-80°	244.3	2.8
80°-90°	72.3	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°	4578.3	51.9
0°-40°	6392.8	72.4
0°-60°	8039.5	91.1
0°-90°	8825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8825.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7828	
5°	7601	696
15°	5921	1670
25°	4874	2213
35°	2918	1815
45°	1192	966
55°	748	680
65°	470	469
75°	232	244
85°	66	72
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7828.2
1°	7851.2
2°	7841.0
3°	7795.0
4°	7715.9
5°	7600.9
6°	7458.0
7°	7287.0
8°	7103.1
9°	6906.5
10°	6717.6
11°	6536.3
12°	6352.4
13°	6199.2
14°	6053.7
15°	5921.0
16°	5795.8
17°	5681.0
18°	5573.7
19°	5466.5
20°	5364.3
21°	5264.8
22°	5178.0
23°	5088.6
24°	4983.9
25°	4874.1
26°	4749.0
27°	4608.6
28°	4450.3
29°	4274.1
30°	4072.4
31°	3860.5
32°	3638.4
33°	3400.9
34°	3163.5
35°	2918.3
37.5°	2338.8
40°	1833.2
42.5°	1447.7
45°	1192.4
47.5°	1023.9
50°	919.2
52.5°	827.3
55°	748.1
57.5°	699.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	617.9
62.5°	538.7
65°	469.8
67.5°	408.5
70°	342.1
72.5°	285.9
75°	232.3
77.5°	168.5
80°	137.9
82.5°	99.6
85°	66.4
87.5°	30.6
90°	0.0

(END OF REPORT)