

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: P250765

Luminaire Tested: **LD8B90D010 ER8B90940 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250765  
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 ER8B90940 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8379.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

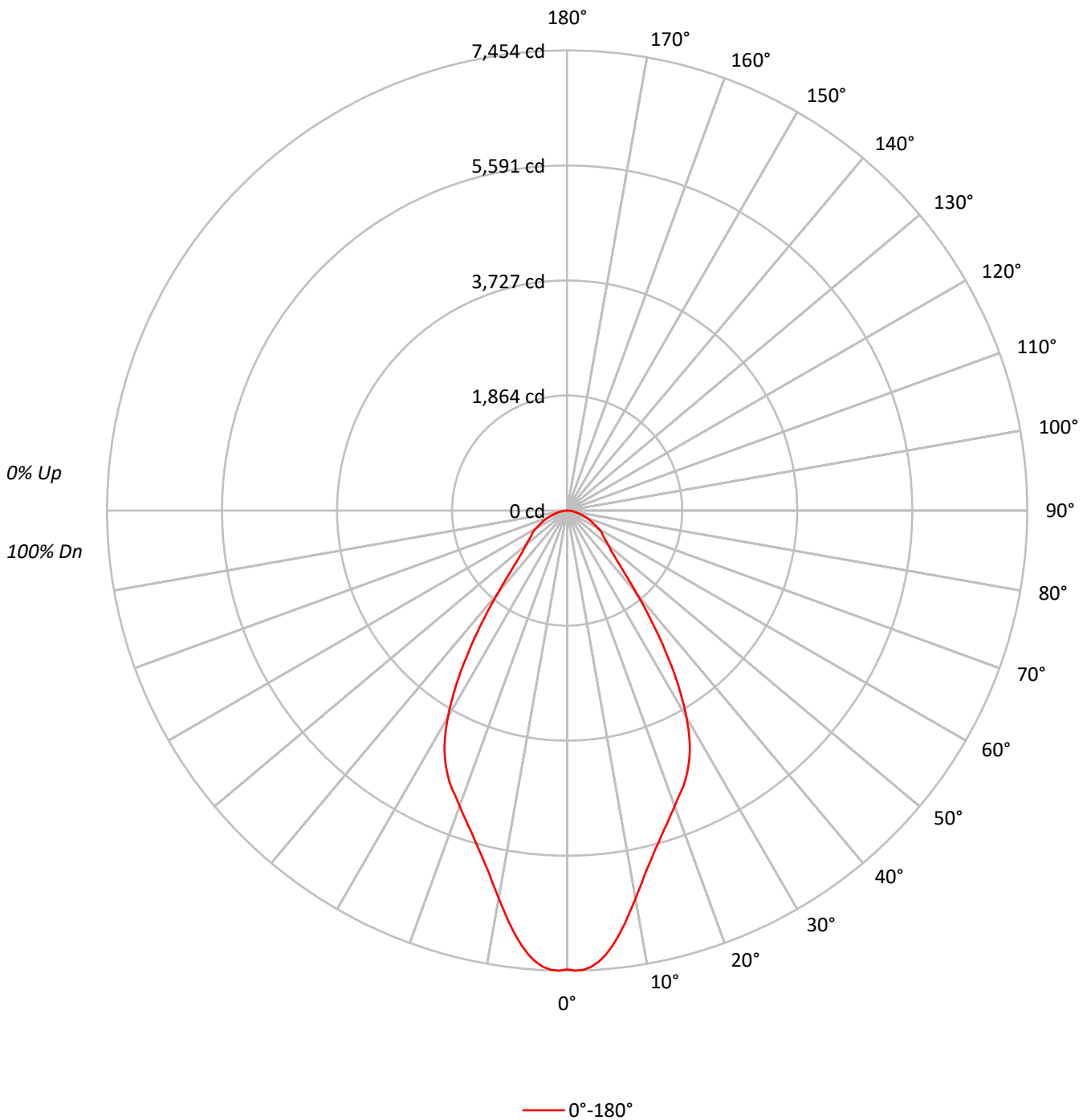
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	229194
5°	223390
10°	199711
15°	179468
20°	167135
25°	157457
30°	137677
35°	104305
40°	70066
45°	49370
50°	41866
55°	38187
60°	36177
65°	32550
70°	29284
75°	26283
80°	23245
85°	22325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	660.6	7.9
10°-20°	1585.4	18.9
20°-30°	2101.0	25.1
30°-40°	1722.8	20.6
40°-50°	917.6	11.0
50°-60°	645.8	7.7
60°-70°	445.4	5.3
70°-80°	231.9	2.8
80°-90°	68.6	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°	4346.9	51.9
0°-40°	6069.7	72.4
0°-60°	7633.1	91.1
0°-90°	8379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8379.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7433	
5°	7217	661
15°	5622	1585
25°	4628	2101
35°	2771	1723
45°	1132	918
55°	710	646
65°	446	445
75°	221	232
85°	63	69
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7432.6
1°	7454.4
2°	7444.7
3°	7401.0
4°	7325.9
5°	7216.8
6°	7081.1
7°	6918.7
8°	6744.1
9°	6557.5
10°	6378.1
11°	6205.9
12°	6031.4
13°	5885.9
14°	5747.8
15°	5621.7
16°	5502.9
17°	5393.8
18°	5292.0
19°	5190.2
20°	5093.2
21°	4998.7
22°	4916.3
23°	4831.4
24°	4732.1
25°	4627.8
26°	4509.0
27°	4375.7
28°	4225.4
29°	4058.1
30°	3866.6
31°	3665.4
32°	3454.5
33°	3229.0
34°	3003.6
35°	2770.8
37.5°	2220.6
40°	1740.6
42.5°	1374.5
45°	1132.1
47.5°	972.1
50°	872.7
52.5°	785.5
55°	710.3
57.5°	664.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	586.6
62.5°	511.5
65°	446.1
67.5°	387.9
70°	324.8
72.5°	271.5
75°	220.6
77.5°	160.0
80°	130.9
82.5°	94.5
85°	63.1
87.5°	29.1
90°	0.0

(END OF REPORT)