

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: P250773

Luminaire Tested: **LD8B100D010 ER8B100950 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250773  
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: LD8B100D010 ER8B100950 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10009.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 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

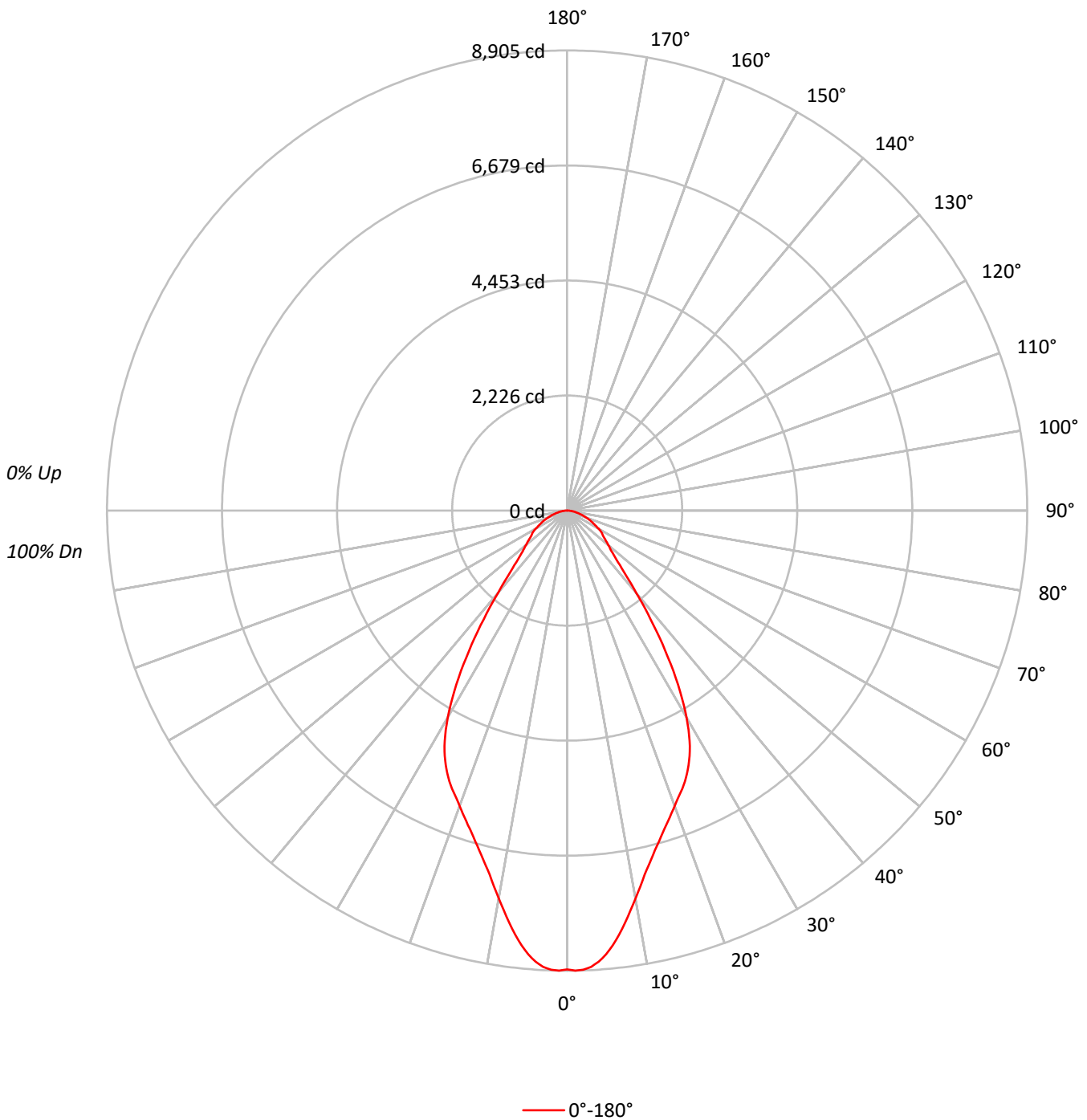
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	273780
5°	266846
10°	238560
15°	214383
20°	199648
25°	188085
30°	164460
35°	124599
40°	83696
45°	58973
50°	50012
55°	45617
60°	43220
65°	38876
70°	34982
75°	31394
80°	27773
85°	26642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	789.1	7.9
10°-20°	1893.8	18.9
20°-30°	2509.7	25.1
30°-40°	2058.0	20.6
40°-50°	1096.1	11.0
50°-60°	771.5	7.7
60°-70°	532.0	5.3
70°-80°	277.0	2.8
80°-90°	81.9	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
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0°-30°	5192.5	51.9
0°-40°	7250.5	72.4
0°-60°	9118.0	91.1
0°-90°	10009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10009.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8878	
5°	8621	789
15°	6715	1894
25°	5528	2510
35°	3310	2058
45°	1352	1096
55°	848	771
65°	533	532
75°	264	277
85°	75	82
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8878.5
1°	8904.6
2°	8892.9
3°	8840.8
4°	8751.1
5°	8620.7
6°	8458.6
7°	8264.6
8°	8056.1
9°	7833.1
10°	7618.8
11°	7413.2
12°	7204.7
13°	7030.9
14°	6865.9
15°	6715.4
16°	6573.4
17°	6443.1
18°	6321.5
19°	6199.9
20°	6084.0
21°	5971.1
22°	5872.7
23°	5771.3
24°	5652.6
25°	5528.0
26°	5386.2
27°	5226.9
28°	5047.4
29°	4847.5
30°	4618.8
31°	4378.4
32°	4126.5
33°	3857.2
34°	3587.9
35°	3309.9
37.5°	2652.5
40°	2079.2
42.5°	1641.9
45°	1352.3
47.5°	1161.2
50°	1042.5
52.5°	938.3
55°	848.5
57.5°	793.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	700.8
62.5°	611.0
65°	532.8
67.5°	463.3
70°	388.0
72.5°	324.3
75°	263.5
77.5°	191.1
80°	156.4
82.5°	112.9
85°	75.3
87.5°	34.7
90°	0.0

(END OF REPORT)