

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: P250740

Luminaire Tested: **LD8B150D010 ER8B150850 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250740  
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: LD8B150D010 ER8B150850 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16288.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

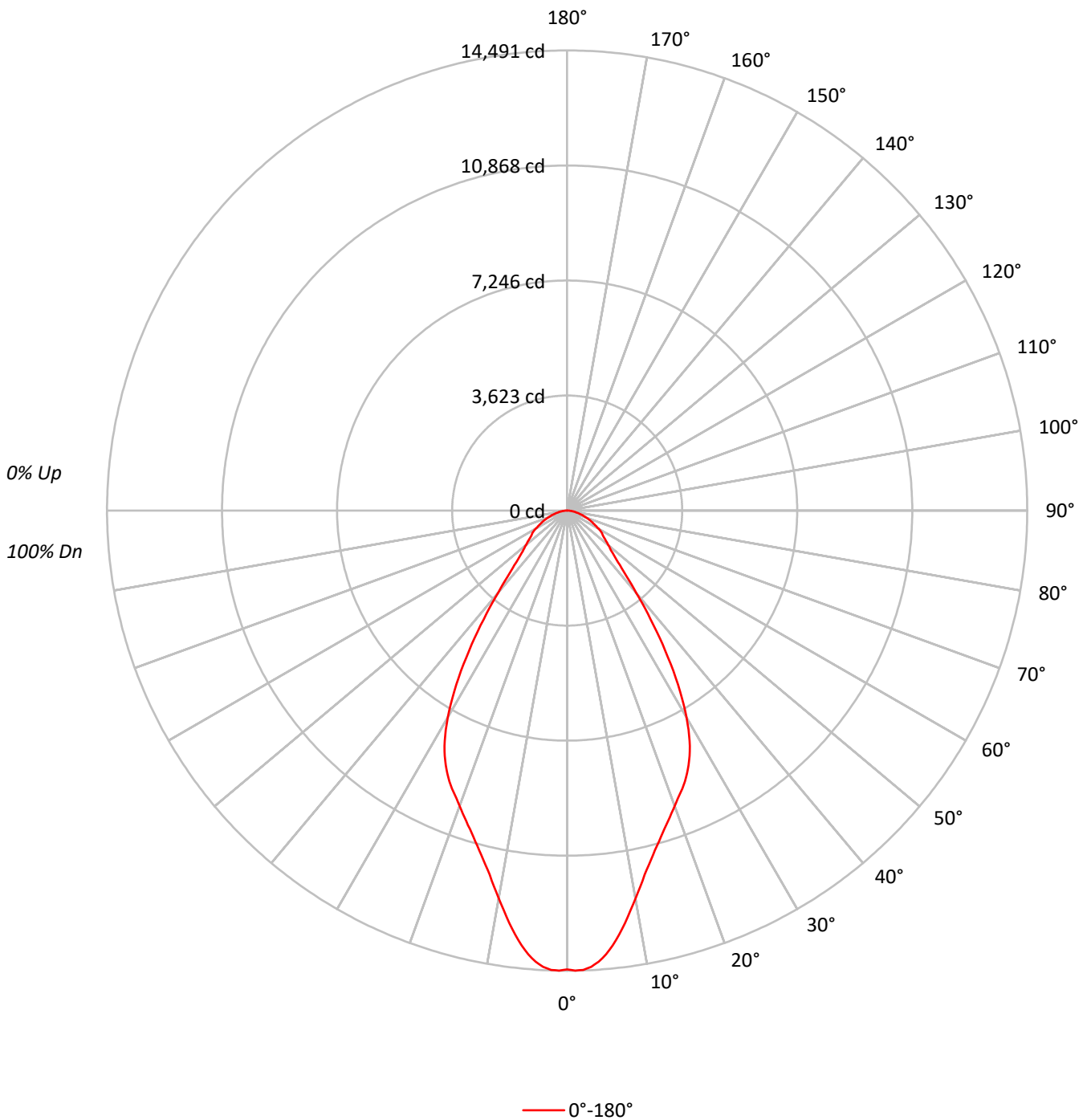
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71				71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	445532
5°	434249
10°	388219
15°	348870
20°	324898
25°	306081
30°	267631
35°	202759
40°	136199
45°	95971
50°	81386
55°	74234
60°	70331
65°	63268
70°	56927
75°	51088
80°	45194
85°	43377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1284.1	7.9
10°-20°	3081.9	18.9
20°-30°	4084.1	25.1
30°-40°	3349.0	20.6
40°-50°	1783.7	11.0
50°-60°	1255.4	7.7
60°-70°	865.7	5.3
70°-80°	450.9	2.8
80°-90°	133.4	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°	8450.0	51.9
0°-40°	11799.0	72.4
0°-60°	14838.1	91.1
0°-90°	16288.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16288.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14448	
5°	14029	###
15°	10928	3082
25°	8996	4084
35°	5386	3349
45°	2201	1784
55°	1381	1255
65°	867	866
75°	429	451
85°	123	133
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14448.3
1°	14490.7
2°	14471.8
3°	14386.9
4°	14241.0
5°	14028.8
6°	13765.0
7°	13449.3
8°	13109.9
9°	12747.1
10°	12398.4
11°	12063.8
12°	11724.4
13°	11441.7
14°	11173.2
15°	10928.1
16°	10697.2
17°	10485.1
18°	10287.2
19°	10089.3
20°	9900.8
21°	9717.0
22°	9556.8
23°	9391.8
24°	9198.7
25°	8996.0
26°	8765.1
27°	8505.9
28°	8213.7
29°	7888.6
30°	7516.3
31°	7125.2
32°	6715.2
33°	6277.0
34°	5838.7
35°	5386.2
37.5°	4316.6
40°	3383.5
42.5°	2672.0
45°	2200.7
47.5°	1889.7
50°	1696.5
52.5°	1526.9
55°	1380.8
57.5°	1291.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	1140.4
62.5°	994.3
65°	867.1
67.5°	754.0
70°	631.4
72.5°	527.8
75°	428.8
77.5°	311.0
80°	254.5
82.5°	183.8
85°	122.6
87.5°	56.5
90°	0.0

(END OF REPORT)