

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: P250737

Luminaire Tested: **LD8B90D010 ER8B90850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250737
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 ER8B90850 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: 9528.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

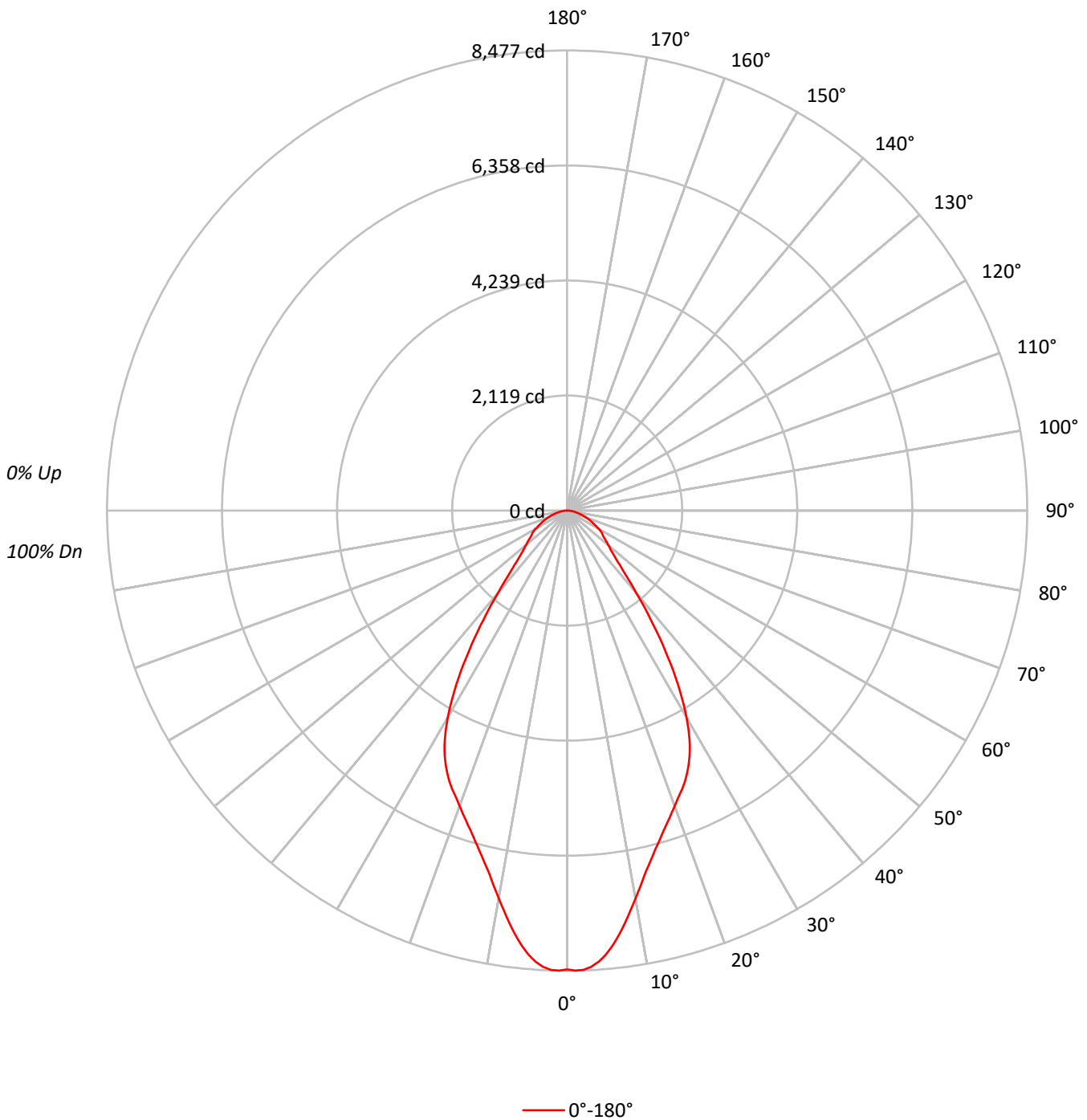
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	260622
5°	254022
10°	227097
15°	204078
20°	190056
25°	179048
30°	156556
35°	118609
40°	79675
45°	56142
50°	47608
55°	43423
60°	41142
65°	37008
70°	33305
75°	29881
80°	26442
85°	25368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.1	7.9
10°-20°	1802.8	18.9
20°-30°	2389.1	25.1
30°-40°	1959.1	20.6
40°-50°	1043.4	11.0
50°-60°	734.4	7.7
60°-70°	506.4	5.3
70°-80°	263.7	2.8
80°-90°	78.0	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°	4943.0	51.9
0°-40°	6902.1	72.4
0°-60°	8679.9	91.1
0°-90°	9528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9528.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8452	
5°	8206	751
15°	6393	1803
25°	5262	2389
35°	3151	1959
45°	1287	1043
55°	808	734
65°	507	506
75°	251	264
85°	72	78
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8451.8
1°	8476.6
2°	8465.6
3°	8415.9
4°	8330.5
5°	8206.4
6°	8052.1
7°	7867.4
8°	7668.9
9°	7456.7
10°	7252.7
11°	7057.0
12°	6858.5
13°	6693.1
14°	6536.0
15°	6392.6
16°	6257.5
17°	6133.5
18°	6017.7
19°	5901.9
20°	5791.7
21°	5684.1
22°	5590.5
23°	5493.9
24°	5381.0
25°	5262.4
26°	5127.3
27°	4975.7
28°	4804.8
29°	4614.6
30°	4396.8
31°	4168.0
32°	3928.2
33°	3671.8
34°	3415.5
35°	3150.8
37.5°	2525.1
40°	1979.3
42.5°	1563.0
45°	1287.4
47.5°	1105.4
50°	992.4
52.5°	893.2
55°	807.7
57.5°	755.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	667.1
62.5°	581.6
65°	507.2
67.5°	441.1
70°	369.4
72.5°	308.7
75°	250.8
77.5°	181.9
80°	148.9
82.5°	107.5
85°	71.7
87.5°	33.1
90°	0.0

(END OF REPORT)