

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: P247299

Luminaire Tested: **LD8B90D010 ER8B90840 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90840 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8907.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

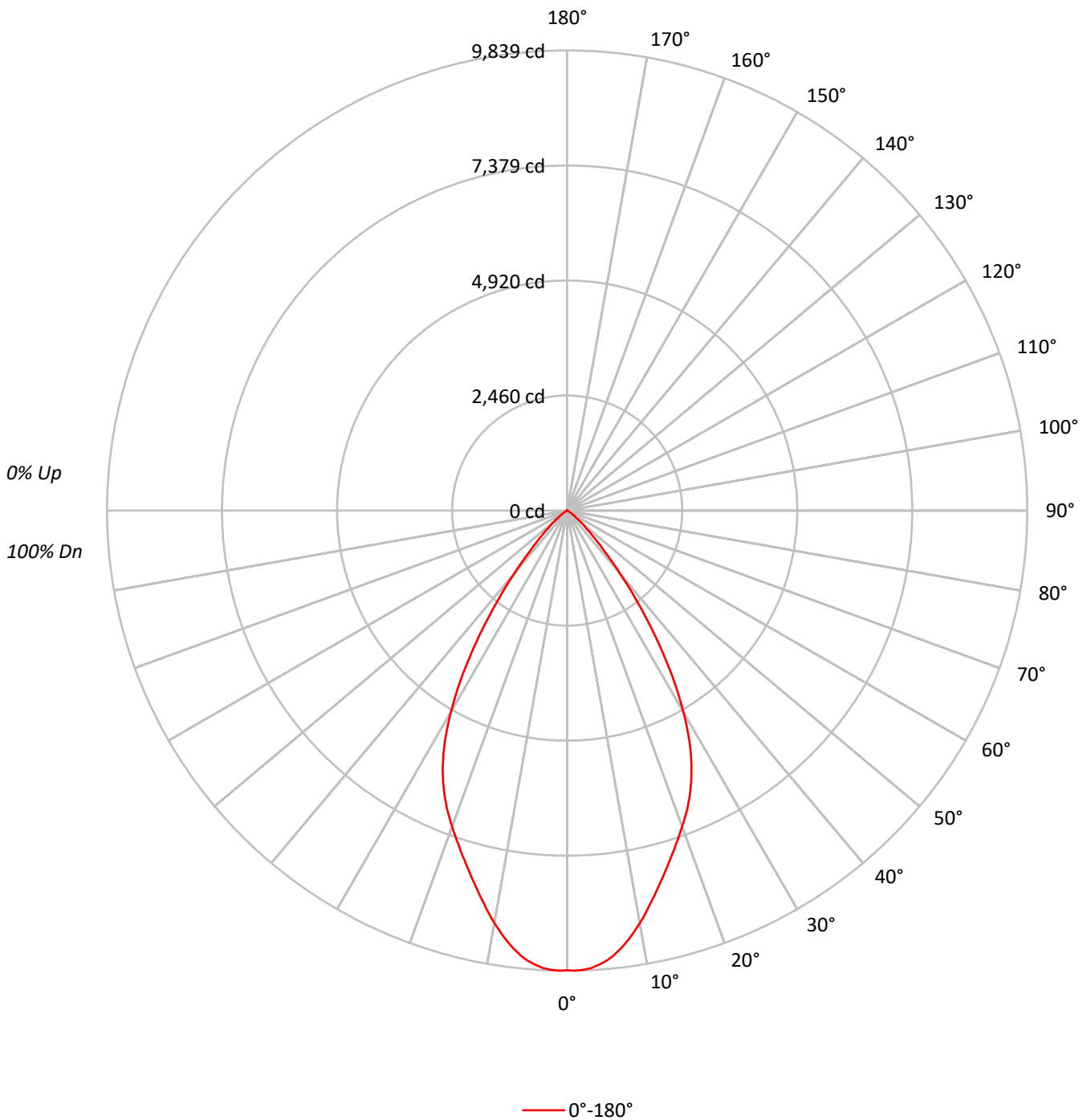
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	302976
5°	299072
10°	280383
15°	256392
20°	236037
25°	213876
30°	177094
35°	124196
40°	70674
45°	34687
50°	17107
55°	7763
60°	3682
65°	1992
70°	207
75°	274
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.1	10.1
10°-20°	2254.5	25.3
20°-30°	2846.0	32.0
30°-40°	2047.3	23.0
40°-50°	677.6	7.6
50°-60°	147.6	1.7
60°-70°	30.4	0.3
70°-80°	3.0	0.0
80°-90°	1.5	0.0
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°	5999.7	67.4
0°-40°	8047.0	90.3
0°-60°	8872.1	99.6
0°-90°	8907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8907.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9825	
5°	9662	899
15°	8031	2255
25°	6286	2846
35°	3299	2047
45°	795	678
55°	144	148
65°	27	30
75°	2	3
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9825.3
1°	9839.1
2°	9827.6
3°	9795.2
4°	9735.0
5°	9661.8
6°	9561.3
7°	9430.5
8°	9286.1
9°	9128.2
10°	8954.5
11°	8777.2
12°	8584.1
13°	8398.1
14°	8210.9
15°	8031.3
16°	7854.6
17°	7685.1
18°	7517.1
19°	7355.6
20°	7192.9
21°	7026.3
22°	6863.6
23°	6686.5
24°	6495.7
25°	6286.0
26°	6065.9
27°	5820.8
28°	5561.6
29°	5273.6
30°	4973.6
31°	4658.1
32°	4326.0
33°	3977.5
34°	3636.7
35°	3299.2
37.5°	2477.7
40°	1755.7
42.5°	1189.4
45°	795.4
47.5°	533.6
50°	356.6
52.5°	215.3
55°	144.4
57.5°	100.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	59.7
62.5°	40.8
65°	27.3
67.5°	24.5
70°	2.3
72.5°	5.6
75°	2.3
77.5°	2.3
80°	0.0
82.5°	5.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)