

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: P250681

Luminaire Tested: **LD8B90D010 ER8B90940 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90940 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7761.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

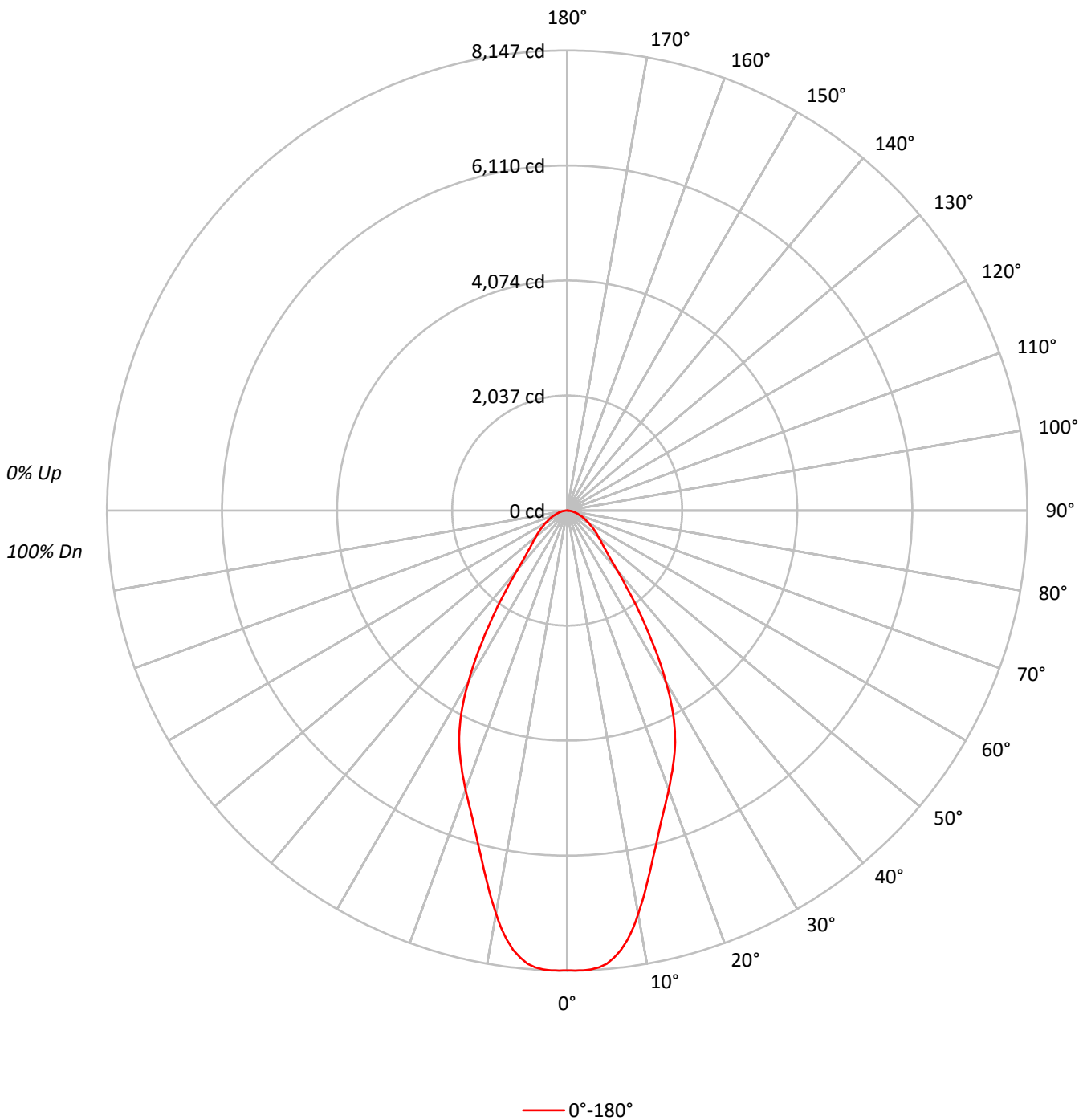
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	251079
5°	249276
10°	227115
15°	194718
20°	172520
25°	153939
30°	124324
35°	86326
40°	54729
45°	40604
50°	34689
55°	30488
60°	27185
65°	24392
70°	20989
75°	19182
80°	18024
85°	15780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.3	9.6
10°-20°	1715.0	22.1
20°-30°	2044.0	26.3
30°-40°	1442.9	18.6
40°-50°	745.1	9.6
50°-60°	511.3	6.6
60°-70°	332.4	4.3
70°-80°	174.0	2.2
80°-90°	52.9	0.7
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°	4502.3	58.0
0°-40°	5945.2	76.6
0°-60°	7201.7	92.8
0°-90°	7761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7761.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8142	
5°	8053	743
15°	6099	1715
25°	4524	2044
35°	2293	1443
45°	931	745
55°	567	511
65°	334	332
75°	161	174
85°	45	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8142.3
1°	8147.3
2°	8147.3
3°	8134.9
4°	8107.7
5°	8053.1
6°	7956.6
7°	7837.7
8°	7674.2
9°	7476.2
10°	7253.3
11°	7018.0
12°	6772.8
13°	6537.6
14°	6309.8
15°	6099.4
16°	5903.7
17°	5722.9
18°	5559.5
19°	5405.9
20°	5257.3
21°	5111.2
22°	4967.6
23°	4824.0
24°	4677.9
25°	4524.4
26°	4350.9
27°	4162.7
28°	3957.2
29°	3739.3
30°	3491.6
31°	3251.5
32°	3006.3
33°	2753.7
34°	2520.9
35°	2293.2
37.5°	1765.7
40°	1359.6
42.5°	1094.6
45°	931.1
47.5°	814.7
50°	723.1
52.5°	643.9
55°	567.1
57.5°	497.8



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CANDELA DISTRIBUTION (continued):

	0°
60°	440.8
62.5°	383.9
65°	334.3
67.5°	289.7
70°	232.8
72.5°	200.6
75°	161.0
77.5°	131.2
80°	101.5
82.5°	74.3
85°	44.6
87.5°	24.7
90°	0.0

(END OF REPORT)