

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: P250646

Luminaire Tested: **LD8B90D010 ER8B90840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250646
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 ER8B90840 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8657.0 lumens
Efficiency: N/A
Efficacy: 100.5 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

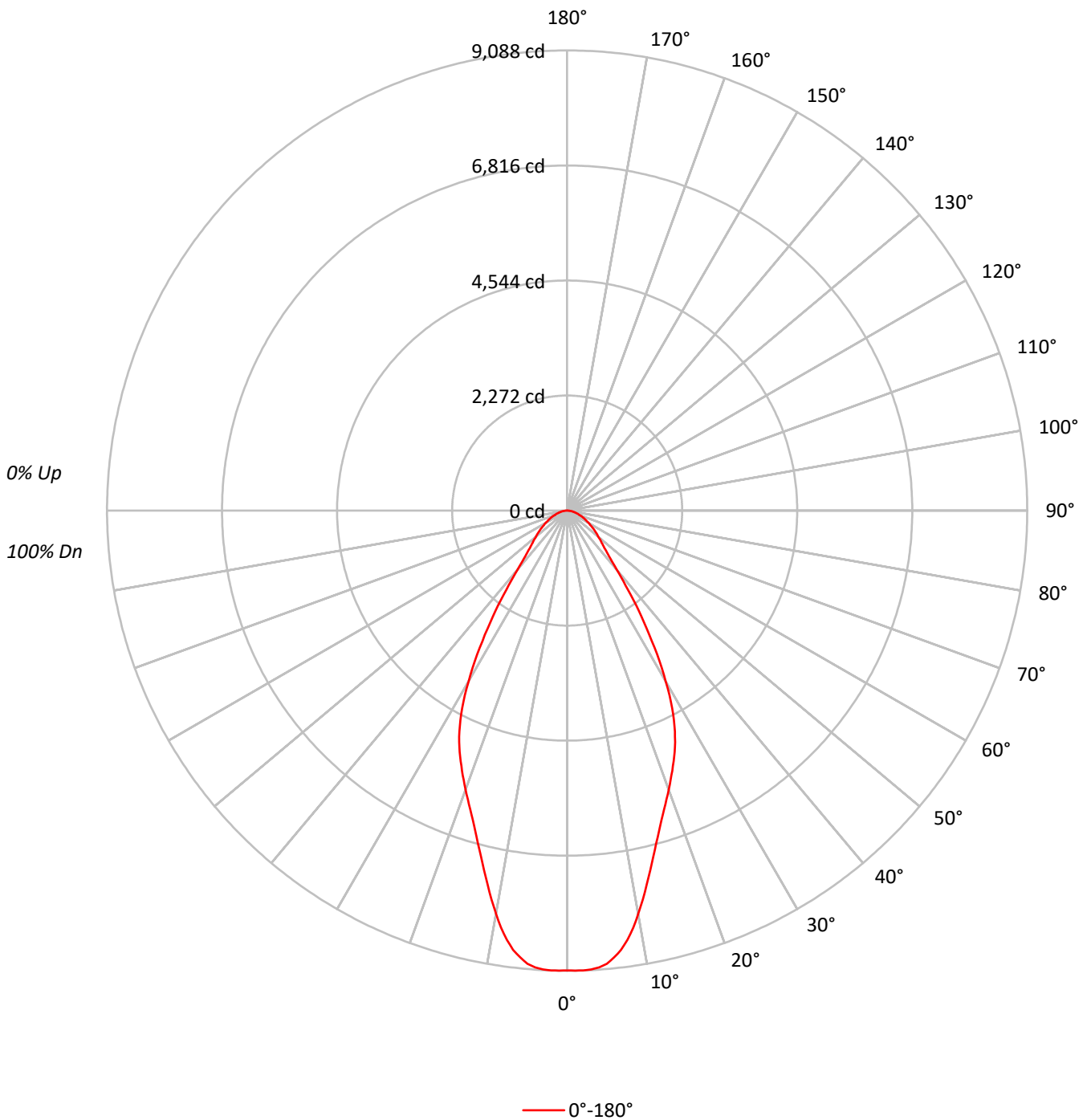
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250646

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250646

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBN0MW

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°	280068
5°	278058
10°	253336
15°	217196
20°	192439
25°	171709
30°	138677
35°	96290
40°	61045
45°	45292
50°	38695
55°	34010
60°	30324
65°	27209
70°	23414
75°	21398
80°	20102
85°	17584



TEST NUMBER: P250646

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.1	9.6
10°-20°	1913.0	22.1
20°-30°	2280.0	26.3
30°-40°	1609.4	18.6
40°-50°	831.2	9.6
50°-60°	570.4	6.6
60°-70°	370.8	4.3
70°-80°	194.1	2.2
80°-90°	59.0	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°	5022.1	58.0
0°-40°	6631.5	76.6
0°-60°	8033.1	92.8
0°-90°	8657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8657.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9082	
5°	8983	829
15°	6804	1913
25°	5047	2280
35°	2558	1609
45°	1039	831
55°	633	570
65°	373	371
75°	180	194
85°	50	59
90°	0	



TEST NUMBER: P250646

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBN0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	9082.4
1°	9087.9
2°	9087.9
3°	9074.0
4°	9043.7
5°	8982.9
6°	8875.2
7°	8742.6
8°	8560.2
9°	8339.3
10°	8090.7
11°	7828.3
12°	7554.7
13°	7292.4
14°	7038.3
15°	6803.5
16°	6585.3
17°	6383.6
18°	6201.3
19°	6030.0
20°	5864.3
21°	5701.3
22°	5541.1
23°	5380.9
24°	5218.0
25°	5046.7
26°	4853.3
27°	4643.3
28°	4414.1
29°	4171.0
30°	3894.7
31°	3626.9
32°	3353.3
33°	3071.6
34°	2811.9
35°	2557.9
37.5°	1969.5
40°	1516.5
42.5°	1221.0
45°	1038.6
47.5°	908.8
50°	806.6
52.5°	718.2
55°	632.6
57.5°	555.3



TEST NUMBER: P250646

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBN0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	491.7
62.5°	428.2
65°	372.9
67.5°	323.2
70°	259.7
72.5°	223.8
75°	179.6
77.5°	146.3
80°	113.2
82.5°	82.9
85°	49.7
87.5°	27.6
90°	0.0

(END OF REPORT)