

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: P250680

Luminaire Tested: **LD8B80D010 ER8B80940 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250680
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: LD8B80D010 ER8B80940 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: 6891.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

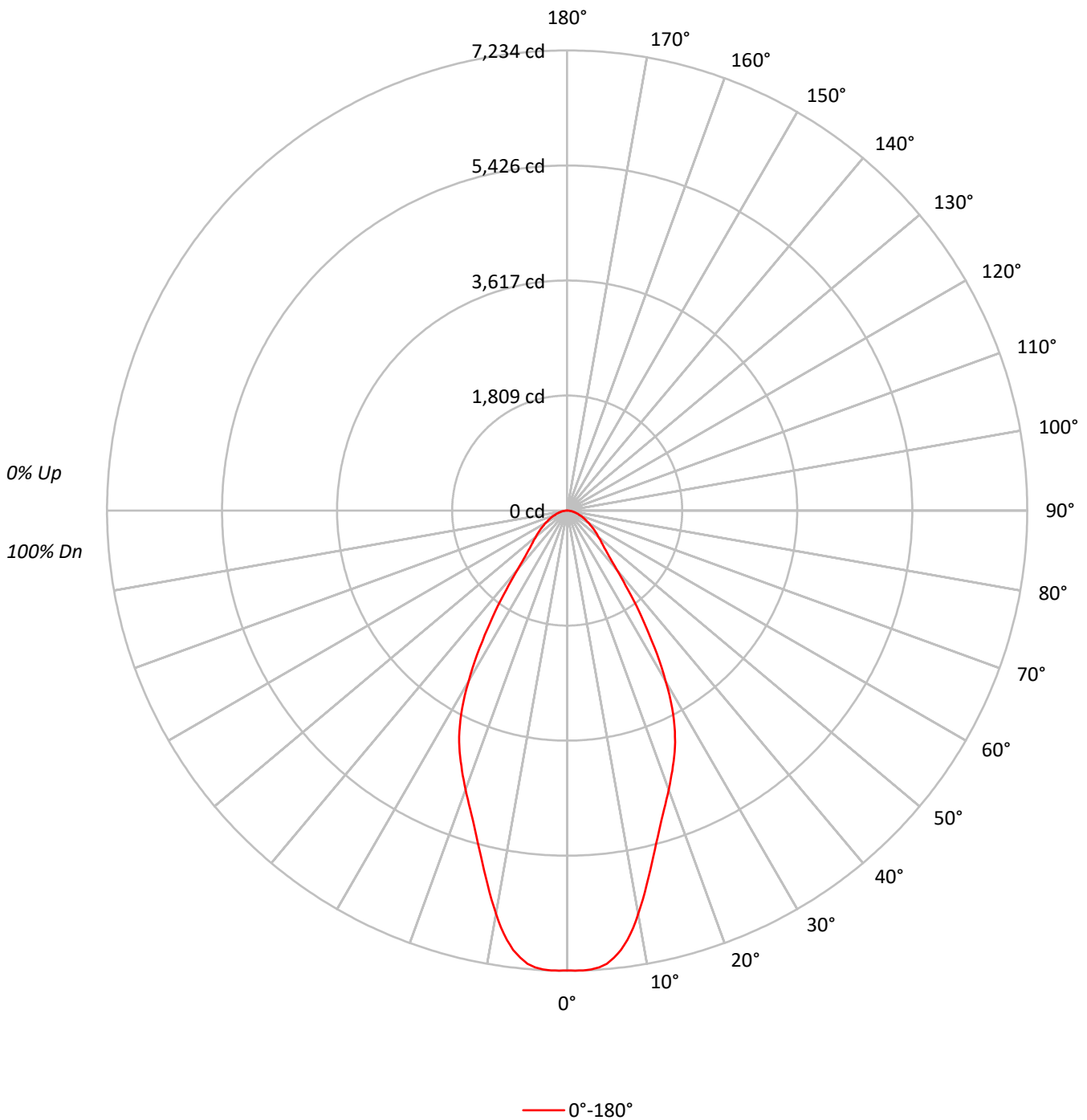
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250680

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250680

CATALOG NUMBER: LD8B80D010 ER8B80940 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°	222934
5°	221334
10°	201656
15°	172888
20°	153182
25°	136682
30°	110388
35°	76647
40°	48595
45°	36052
50°	30803
55°	27069
60°	24139
65°	21656
70°	18636
75°	17037
80°	16000
85°	14011



TEST NUMBER: P250680

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.0	9.6
10°-20°	1522.8	22.1
20°-30°	1814.9	26.3
30°-40°	1281.1	18.6
40°-50°	661.6	9.6
50°-60°	454.0	6.6
60°-70°	295.1	4.3
70°-80°	154.5	2.2
80°-90°	47.0	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°	3997.6	58.0
0°-40°	5278.8	76.6
0°-60°	6394.4	92.8
0°-90°	6891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6891.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7230	
5°	7150	660
15°	5416	1523
25°	4017	1815
35°	2036	1281
45°	827	662
55°	504	454
65°	297	295
75°	143	155
85°	40	47
90°	0	



TEST NUMBER: P250680

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBN0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	7229.6
1°	7234.0
2°	7234.0
3°	7223.0
4°	7198.8
5°	7150.4
6°	7064.7
7°	6959.1
8°	6814.0
9°	6638.1
10°	6440.2
11°	6231.3
12°	6013.6
13°	5804.8
14°	5602.5
15°	5415.6
16°	5241.9
17°	5081.4
18°	4936.2
19°	4799.9
20°	4668.0
21°	4538.3
22°	4410.8
23°	4283.2
24°	4153.5
25°	4017.2
26°	3863.2
27°	3696.1
28°	3513.6
29°	3320.2
30°	3100.2
31°	2887.0
32°	2669.3
33°	2445.0
34°	2238.3
35°	2036.1
37.5°	1567.8
40°	1207.2
42.5°	971.9
45°	826.7
47.5°	723.4
50°	642.1
52.5°	571.7
55°	503.5
57.5°	442.0



TEST NUMBER: P250680

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBN0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	391.4
62.5°	340.8
65°	296.8
67.5°	257.2
70°	206.7
72.5°	178.1
75°	143.0
77.5°	116.5
80°	90.1
82.5°	66.0
85°	39.6
87.5°	22.0
90°	0.0

(END OF REPORT)