

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: P246737

Luminaire Tested: **LD8B50D010 ER8B50950 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B50D010 ER8B50950 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5087.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

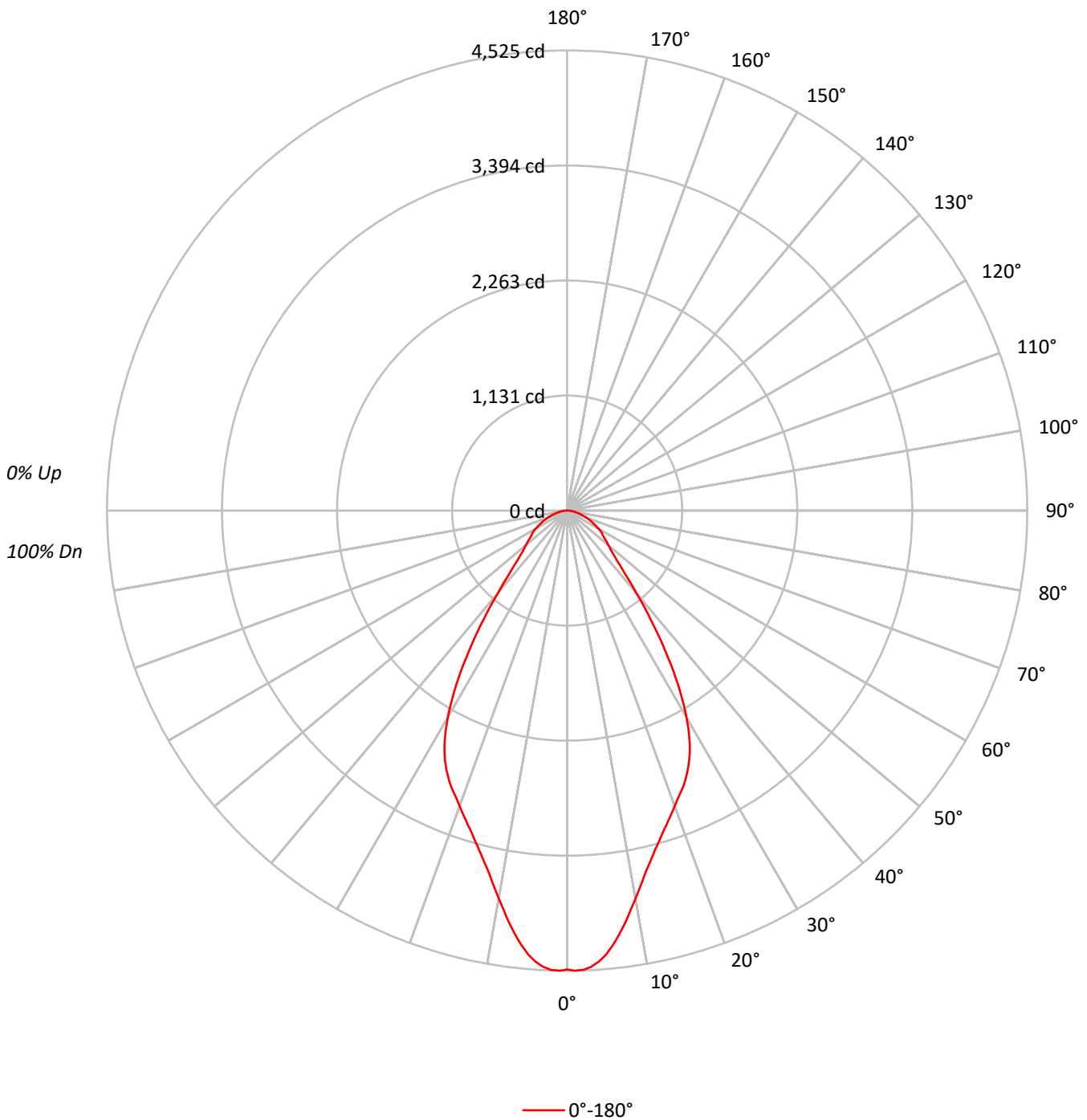
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246737

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246737

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBM0MW

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°	139152
5°	135625
10°	121246
15°	108957
20°	101468
25°	95591
30°	83576
35°	63329
40°	42532
45°	29981
50°	25426
55°	23182
60°	21968
65°	19759
70°	17779
75°	15989
80°	14082
85°	13551



TEST NUMBER: P246737

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	7.9
10°-20°	962.5	18.9
20°-30°	1275.5	25.1
30°-40°	1045.9	20.6
40°-50°	557.1	11.0
50°-60°	392.1	7.7
60°-70°	270.4	5.3
70°-80°	140.8	2.8
80°-90°	41.7	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°	2639.0	51.9
0°-40°	3684.9	72.4
0°-60°	4634.1	91.1
0°-90°	5087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4513	
5°	4382	401
15°	3413	962
25°	2810	1275
35°	1682	1046
45°	688	557
55°	431	392
65°	271	270
75°	134	141
85°	38	42
90°	0	



TEST NUMBER: P246737

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	4512.6
1°	4525.4
2°	4519.9
3°	4493.1
4°	4447.3
5°	4381.5
6°	4299.1
7°	4200.2
8°	4094.2
9°	3981.3
10°	3872.2
11°	3767.8
12°	3661.7
13°	3573.3
14°	3489.5
15°	3413.0
16°	3340.8
17°	3274.3
18°	3212.7
19°	3151.1
20°	3092.1
21°	3034.5
22°	2984.5
23°	2933.2
24°	2872.9
25°	2809.5
26°	2737.5
27°	2656.4
28°	2565.0
29°	2463.6
30°	2347.2
31°	2225.2
32°	2097.1
33°	1960.4
34°	1823.2
35°	1682.3
37.5°	1348.0
40°	1056.6
42.5°	834.4
45°	687.5
47.5°	590.4
50°	530.0
52.5°	477.0
55°	431.2
57.5°	403.2



TEST NUMBER: P246737

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	356.2
62.5°	310.6
65°	270.8
67.5°	235.5
70°	197.2
72.5°	164.6
75°	134.2
77.5°	97.1
80°	79.3
82.5°	57.4
85°	38.3
87.5°	17.8
90°	0.0

(END OF REPORT)