

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: P244037

Luminaire Tested: **LD8B50D010 ER8B50840 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B50D010 ER8B50840 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6164.9 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

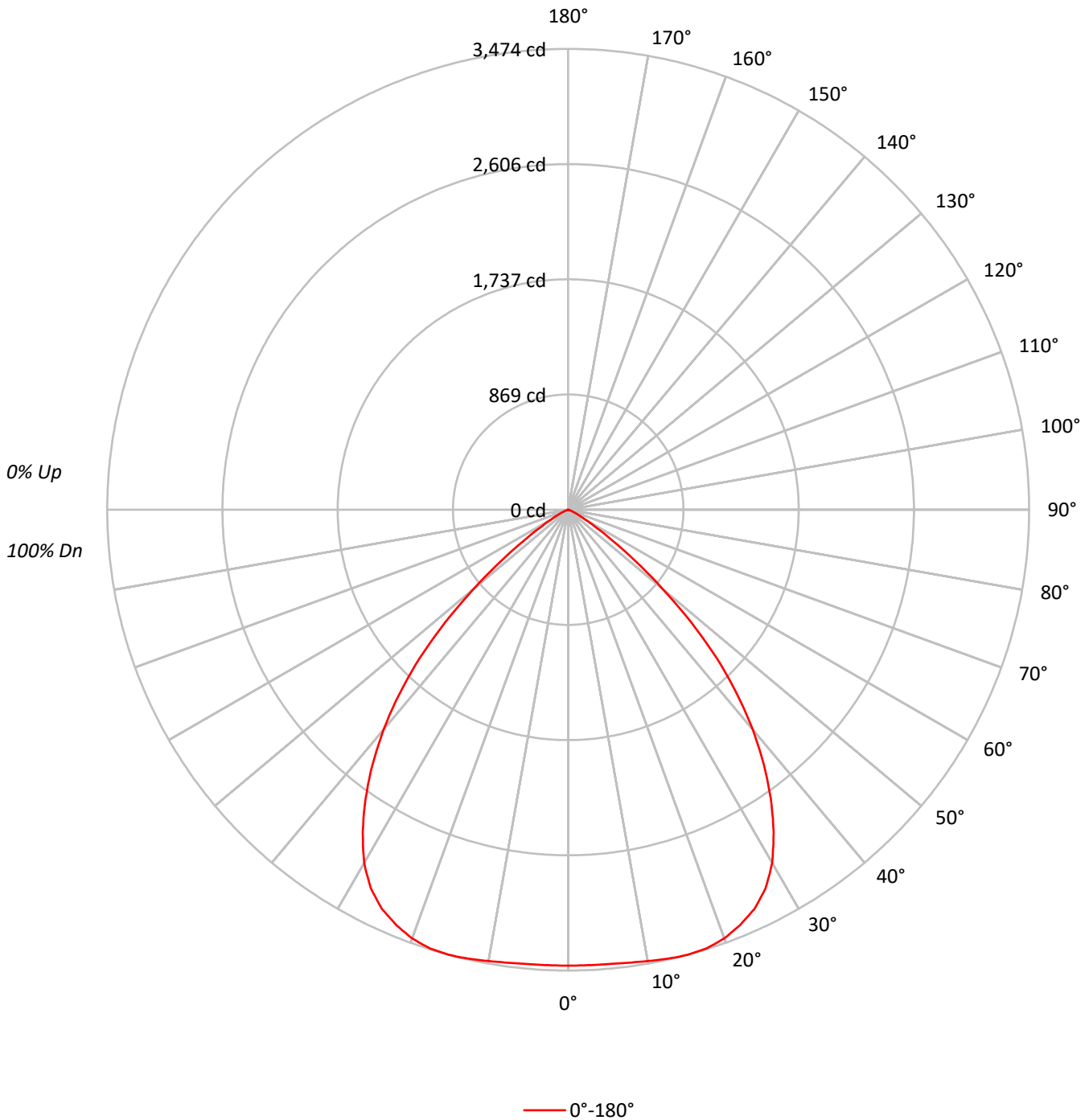
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244037

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSOLI

Luminous Intensity Polar Plot





TEST NUMBER: P244037

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSOLI

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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105994
5°	106454
10°	108183
15°	110920
20°	112855
25°	112980
30°	109487
35°	100243
40°	87118
45°	68933
50°	44701
55°	22338
60°	9380
65°	4130
70°	1271
75°	631
80°	622
85°	637



TEST NUMBER: P244037

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	5.3
10°-20°	981.8	15.9
20°-30°	1521.0	24.7
30°-40°	1651.8	26.8
40°-50°	1200.3	19.5
50°-60°	407.9	6.6
60°-70°	65.0	1.1
70°-80°	6.9	0.1
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°	2831.6	45.9
0°-40°	4483.4	72.7
0°-60°	6091.6	98.8
0°-90°	6164.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6164.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3437	
5°	3439	329
15°	3474	982
25°	3321	1521
35°	2663	1652
45°	1581	1200
55°	416	408
65°	57	65
75°	5	7
85°	2	1
90°	0	



TEST NUMBER: P244037

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSOLI

CANDELA DISTRIBUTION (FULL):

	0°
0°	3437.3
2.5°	3437.3
5°	3439.1
7.5°	3444.4
10°	3455.0
12.5°	3467.4
15°	3474.5
17.5°	3467.4
20°	3439.1
22.5°	3387.8
25°	3320.6
27.5°	3219.8
30°	3074.9
32.5°	2882.1
35°	2662.9
37.5°	2424.2
40°	2164.2
42.5°	1883.1
45°	1580.7
47.5°	1255.4
50°	931.8
52.5°	638.3
55°	415.5
57.5°	252.8
60°	152.1
62.5°	93.7
65°	56.6
67.5°	31.8
70°	14.1
72.5°	8.8
75°	5.3
77.5°	3.5
80°	3.5
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0

(END OF REPORT)