

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: P250562

Luminaire Tested: **LD8B90D010 ER8B90840 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90840 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5970.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

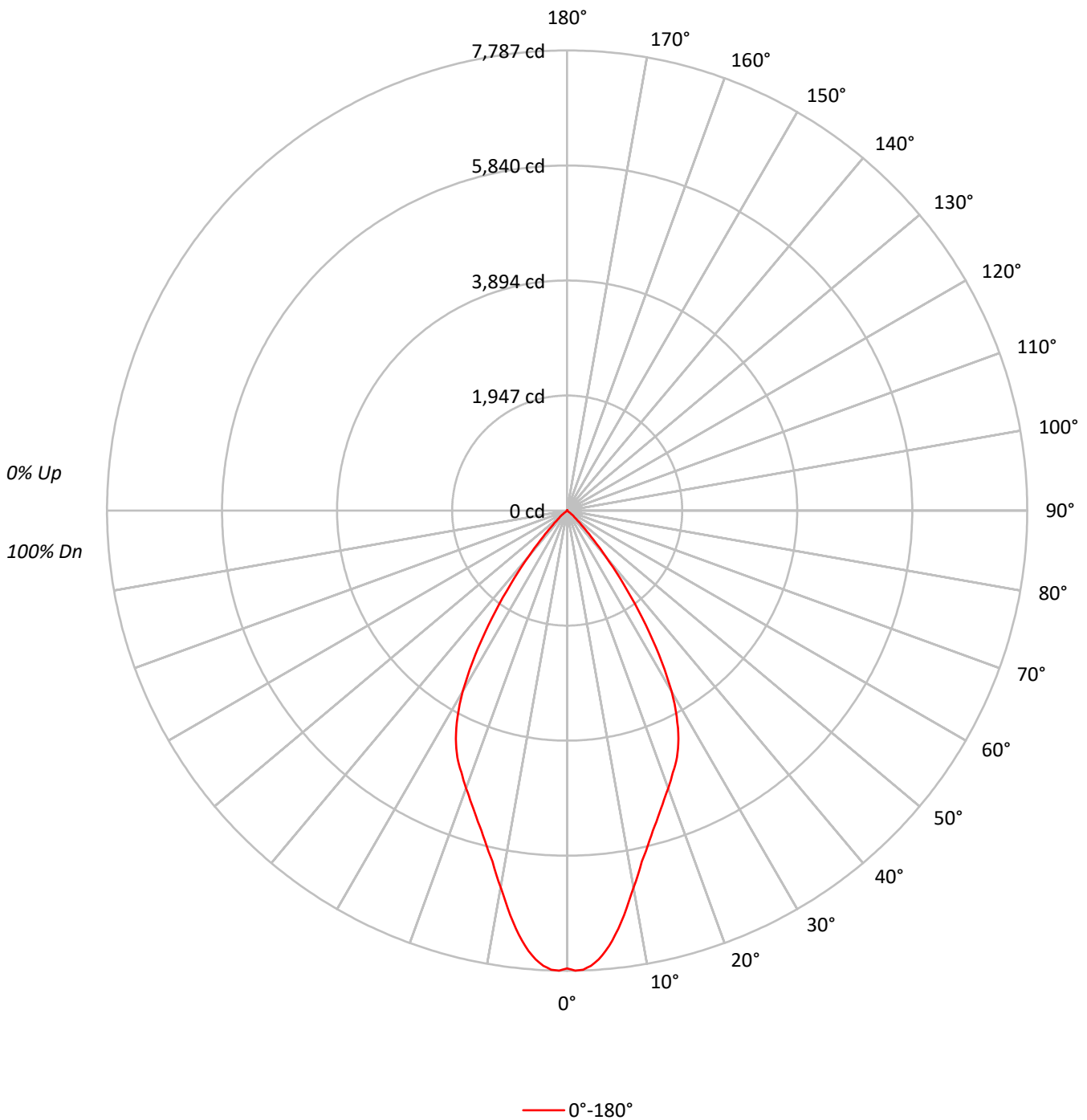
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250562

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBM0B

Luminous Intensity Polar Plot





TEST NUMBER: P250562

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBM0B

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	114	111	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	238867
5°	231565
10°	202802
15°	179046
20°	164067
25°	151070
30°	125738
35°	83514
40°	40644
45°	14722
50°	4428
55°	312
60°	0
65°	212
70°	0
75°	0
80°	515
85°	0



TEST NUMBER: P250562

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBM0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.4	11.4
10°-20°	1580.1	26.5
20°-30°	2004.6	33.6
30°-40°	1373.3	23.0
40°-50°	313.0	5.2
50°-60°	15.6	0.3
60°-70°	0.7	0.0
70°-80°	1.1	0.0
80°-90°	1.2	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°	4265.1	71.4
0°-40°	5638.4	94.4
0°-60°	5967.0	99.9
0°-90°	5970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5970.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7746	
5°	7481	680
15°	5608	1580
25°	4440	2005
35°	2218	1373
45°	338	313
55°	6	16
65°	3	1
75°	0	1
85°	0	1
90°	0	



TEST NUMBER: P250562

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBM0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	7746.3
1°	7786.7
2°	7772.2
3°	7714.5
4°	7616.4
5°	7480.9
6°	7316.4
7°	7126.0
8°	6915.3
9°	6690.3
10°	6476.8
11°	6280.7
12°	6070.1
13°	5917.2
14°	5755.6
15°	5608.5
16°	5475.8
17°	5345.9
18°	5224.8
19°	5106.4
20°	4999.7
21°	4890.1
22°	4777.6
23°	4679.5
24°	4569.9
25°	4440.1
26°	4295.8
27°	4128.5
28°	3949.6
29°	3750.5
30°	3531.3
31°	3283.1
32°	3026.4
33°	2758.1
34°	2484.0
35°	2218.5
37.5°	1566.6
40°	1009.7
42.5°	594.3
45°	337.6
47.5°	181.8
50°	92.3
52.5°	17.3
55°	5.8
57.5°	2.9



TEST NUMBER: P250562

CATALOG NUMBER: LD8B90D010 ER8B90840 8LBM0B

CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	2.9
67.5°	0.0
70°	0.0
72.5°	2.9
75°	0.0
77.5°	0.0
80°	2.9
82.5°	0.0
85°	0.0
87.5°	2.9
90°	0.0

(END OF REPORT)