

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: P250969

Luminaire Tested: **LD8B70D010 ER8B70850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B70D010 ER8B70850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7516.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

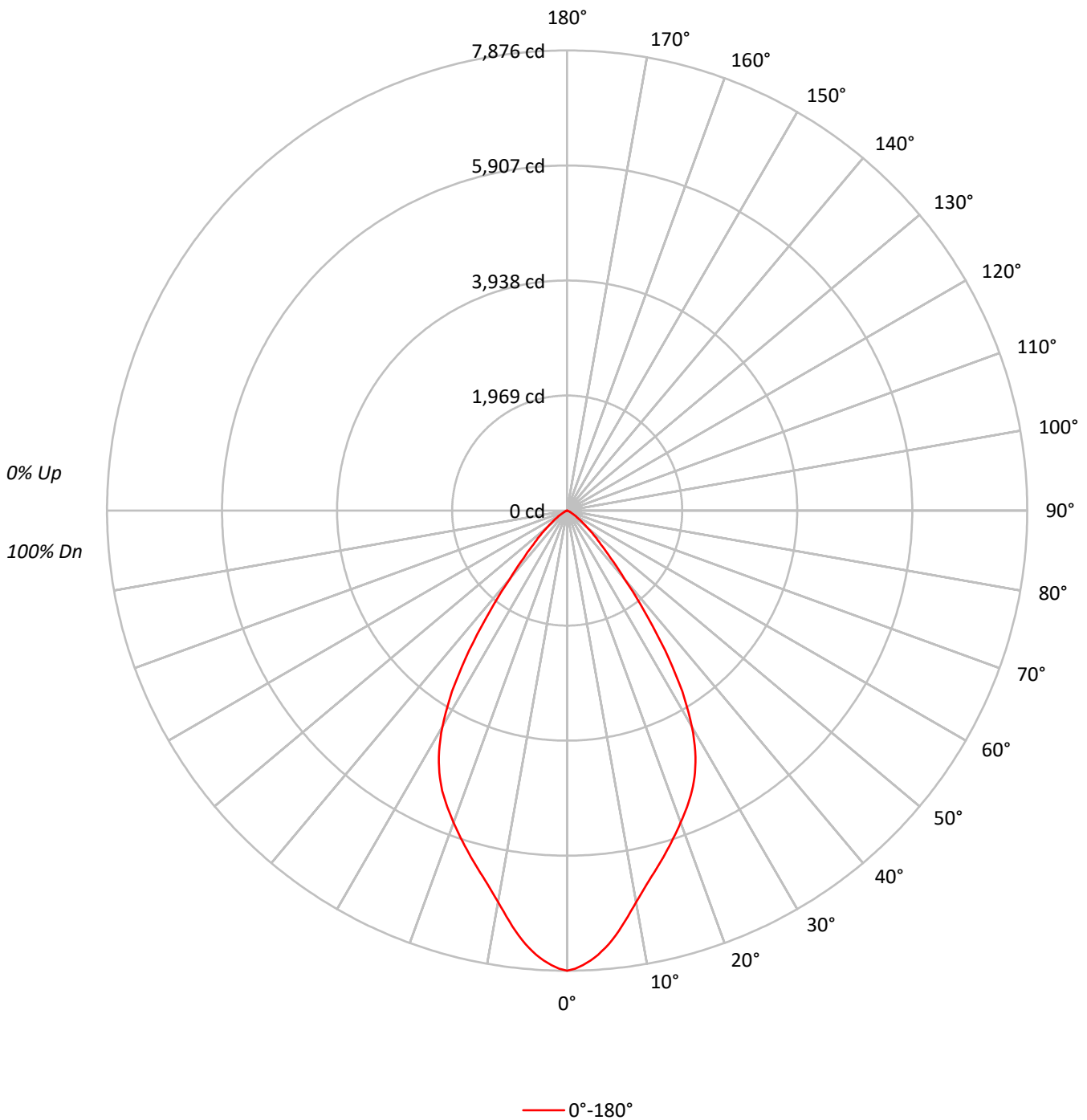
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250969

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBM0H

Luminous Intensity Polar Plot





TEST NUMBER: P250969

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBM0H

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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242861
5°	232558
10°	213097
15°	198287
20°	186499
25°	174489
30°	152172
35°	109977
40°	61657
45°	35472
50°	21708
55°	12354
60°	6420
65°	3276
70°	1785
75°	1072
80°	639
85°	637



TEST NUMBER: P250969

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBM0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.7	9.2
10°-20°	1746.1	23.2
20°-30°	2329.8	31.0
30°-40°	1795.8	23.9
40°-50°	669.6	8.9
50°-60°	219.0	2.9
60°-70°	50.5	0.7
70°-80°	10.2	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°	4769.5	63.5
0°-40°	6565.3	87.4
0°-60°	7453.8	99.2
0°-90°	7516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7516.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7876	
5°	7513	694
15°	6211	1746
25°	5128	2330
35°	2922	1796
45°	813	670
55°	230	219
65°	45	50
75°	9	10
85°	2	1
90°	0	



TEST NUMBER: P250969

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBM0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	7875.8
1°	7841.7
2°	7784.2
3°	7710.6
4°	7620.8
5°	7513.0
6°	7390.9
7°	7250.9
8°	7101.8
9°	6947.4
10°	6805.6
11°	6669.1
12°	6541.6
13°	6424.9
14°	6317.1
15°	6211.2
16°	6103.5
17°	5999.3
18°	5891.6
19°	5785.6
20°	5683.3
21°	5577.3
22°	5475.0
23°	5367.2
24°	5254.1
25°	5128.4
26°	4990.1
27°	4837.5
28°	4668.7
29°	4480.2
30°	4273.7
32.5°	3668.5
35°	2921.5
37.5°	2163.8
40°	1531.7
42.5°	1097.1
45°	813.4
47.5°	612.3
50°	452.5
52.5°	323.2
55°	229.8
57.5°	158.0
60°	104.1
62.5°	68.2
65°	44.9



TEST NUMBER: P250969

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBM0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	30.5
70°	19.8
72.5°	12.6
75°	9.0
77.5°	5.4
80°	3.6
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0

(END OF REPORT)