

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: P250963

Luminaire Tested: **LD8B70D010 ER8B70830 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250963
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 ER8B70830 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7135.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

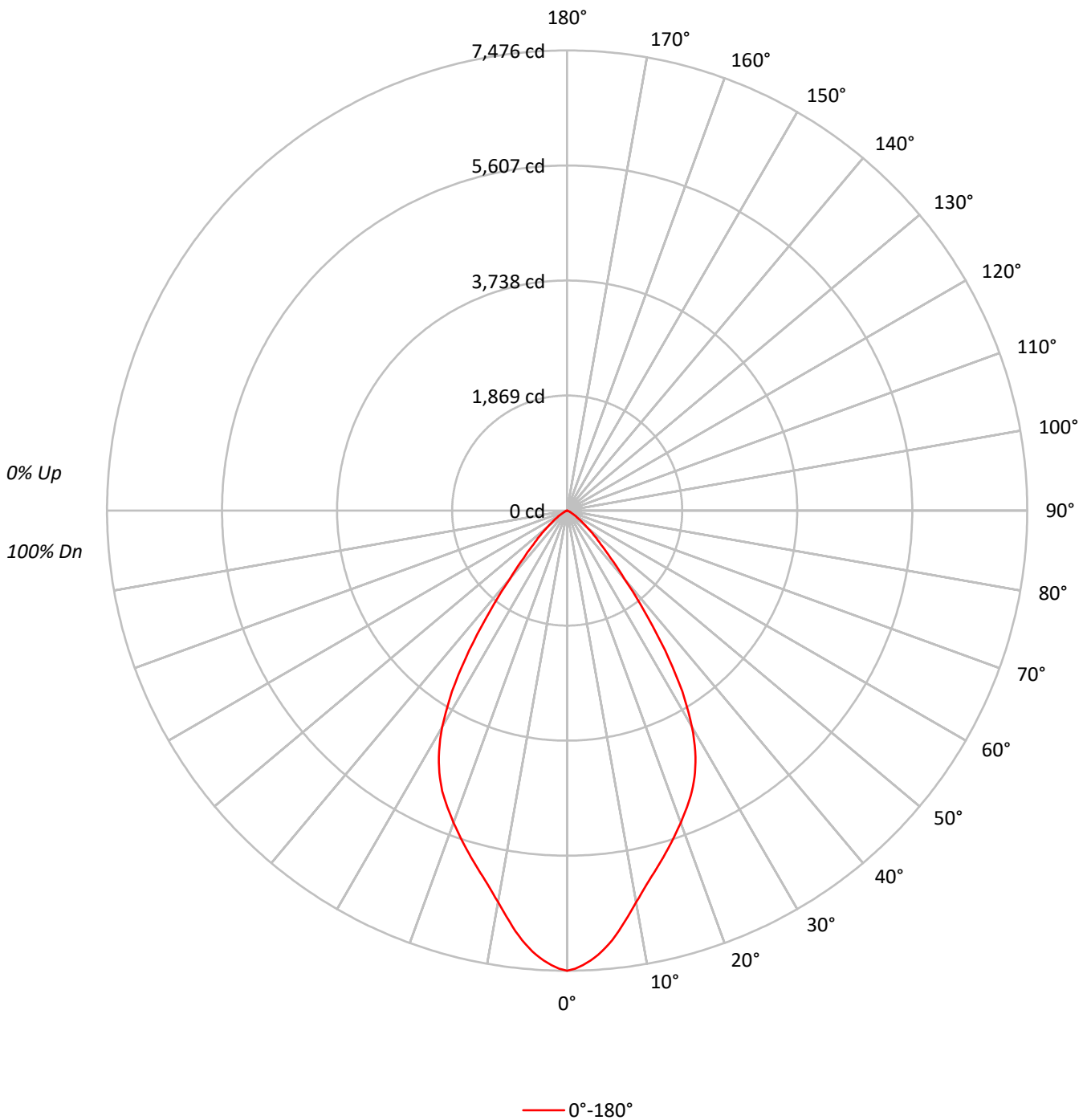
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250963

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBM0H

Luminous Intensity Polar Plot





TEST NUMBER: P250963

CATALOG NUMBER: LD8B70D010 ER8B70830 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°	230548
5°	220771
10°	202294
15°	188234
20°	177045
25°	165643
30°	144456
35°	104402
40°	58533
45°	33675
50°	20609
55°	11731
60°	6099
65°	3108
70°	1695
75°	1013
80°	604
85°	601



TEST NUMBER: P250963

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBM0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.5	9.2
10°-20°	1657.6	23.2
20°-30°	2211.7	31.0
30°-40°	1704.8	23.9
40°-50°	635.6	8.9
50°-60°	207.9	2.9
60°-70°	48.0	0.7
70°-80°	9.6	0.1
80°-90°	1.4	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°	4527.8	63.5
0°-40°	6232.5	87.4
0°-60°	7076.0	99.2
0°-90°	7135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7135.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7476	
5°	7132	659
15°	5896	1658
25°	4868	2212
35°	2773	1705
45°	772	636
55°	218	208
65°	43	48
75°	8	10
85°	2	1
90°	0	



TEST NUMBER: P250963

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBM0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	7476.5
1°	7444.1
2°	7389.6
3°	7319.7
4°	7234.5
5°	7132.2
6°	7016.3
7°	6883.3
8°	6741.8
9°	6595.2
10°	6460.6
11°	6331.0
12°	6210.0
13°	6099.2
14°	5996.9
15°	5896.3
16°	5794.1
17°	5695.2
18°	5592.9
19°	5492.3
20°	5395.2
21°	5294.6
22°	5197.4
23°	5095.2
24°	4987.8
25°	4868.4
26°	4737.2
27°	4592.3
28°	4432.1
29°	4253.1
30°	4057.0
32.5°	3482.6
35°	2773.4
37.5°	2054.1
40°	1454.1
42.5°	1041.5
45°	772.2
47.5°	581.3
50°	429.6
52.5°	306.8
55°	218.2
57.5°	150.0
60°	98.9
62.5°	64.8
65°	42.6



TEST NUMBER: P250963

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBM0H

CANDELA DISTRIBUTION (continued):

	0°
67.5°	29.0
70°	18.8
72.5°	11.9
75°	8.5
77.5°	5.1
80°	3.4
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0

(END OF REPORT)