

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P224164

Luminaire Tested: **LSSQ2B10SP158030D010 2LBD*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSSQ2B10SP158030D010 2LBD*GPH
Description: 1000 Lumen, 2inch Portfolio LED Cylinder
SPOT OPTIC
SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 569.7 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

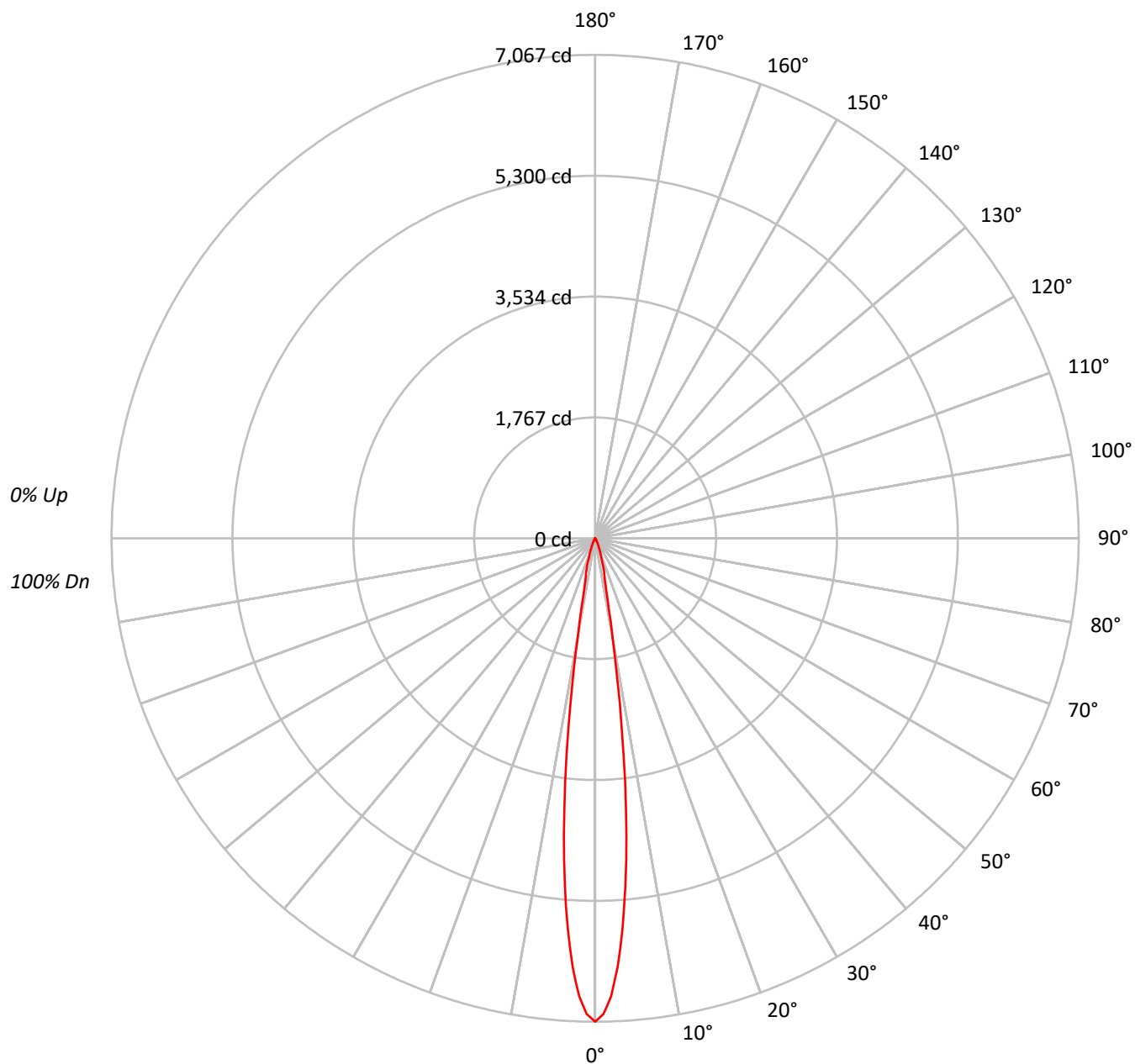
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224164

CATALOG NUMBER: LSSQ2B10SP158030D010 2LBD*GPH

Luminous Intensity Polar Plot





TEST NUMBER: P224164

CATALOG NUMBER: LSSQ2B10SP158030D010 2LBD*GPH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	100		100
3	110	106	103	101	108	105	102	100	102	100	98		100	98	97		98
4	108	103	100	97	106	102	99	97	100	98	96		98	96	95		97
5	105	101	97	95	104	100	97	94	98	96	94		97	95	93		95
6	103	98	95	93	102	98	95	92	96	94	92		95	93	91		94
7	101	96	93	91	100	96	93	90	95	92	90		94	91	90		93
8	100	94	91	89	99	94	91	89	93	90	89		92	90	88		92
9	98	93	90	88	97	92	89	87	92	89	87		91	89	87		90
10	96	91	88	86	96	91	88	86	90	88	86		90	87	86		89

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2737529
5°	1978967
10°	576137
15°	202149
20°	86563
25°	38935
30°	15073
35°	7471
40°	5006
45°	3232
50°	1808
55°	1351
60°	775
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224164

CATALOG NUMBER: LSSQ2B10SP158030D010 2LBD*GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.2	63.2
10°-20°	146.5	25.7
20°-30°	45.0	7.9
30°-40°	11.1	1.9
40°-50°	4.6	0.8
50°-60°	2.0	0.4
60°-70°	0.4	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	551.7	96.8
0°-40°	562.7	98.8
0°-60°	569.4	99.9
0°-90°	569.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7067	
5°	5090	360
15°	504	147
25°	91	45
35°	16	11
45°	6	5
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224164

CATALOG NUMBER: LSSQ2B10SP158030D010 2LBD*GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	7067.4
1°	6959.4
2°	6696.0
3°	6276.1
4°	5727.4
5°	5089.6
6°	4370.6
7°	3590.1
8°	2798.8
9°	2059.0
10°	1464.8
11°	1049.8
12°	789.3
13°	642.8
14°	562.5
15°	504.1
17.5°	311.0
20°	210.0
22.5°	140.6
25°	91.1
27.5°	55.5
30°	33.7
32.5°	21.8
35°	15.8
37.5°	12.9
40°	9.9
42.5°	7.9
45°	5.9
47.5°	4.0
50°	3.0
52.5°	3.0
55°	2.0
57.5°	2.0
60°	1.0
62.5°	1.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



TEST NUMBER: P224164

CATALOG NUMBER: LSSQ2B10SP158030D010 2LBD*GPH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)