

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: P208908

Luminaire Tested: **LDSQA6A45827D010TE LARH20SP 6LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26676)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A45827D010TE LARH20SP 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 20° SPOT
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3904.5 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.48
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

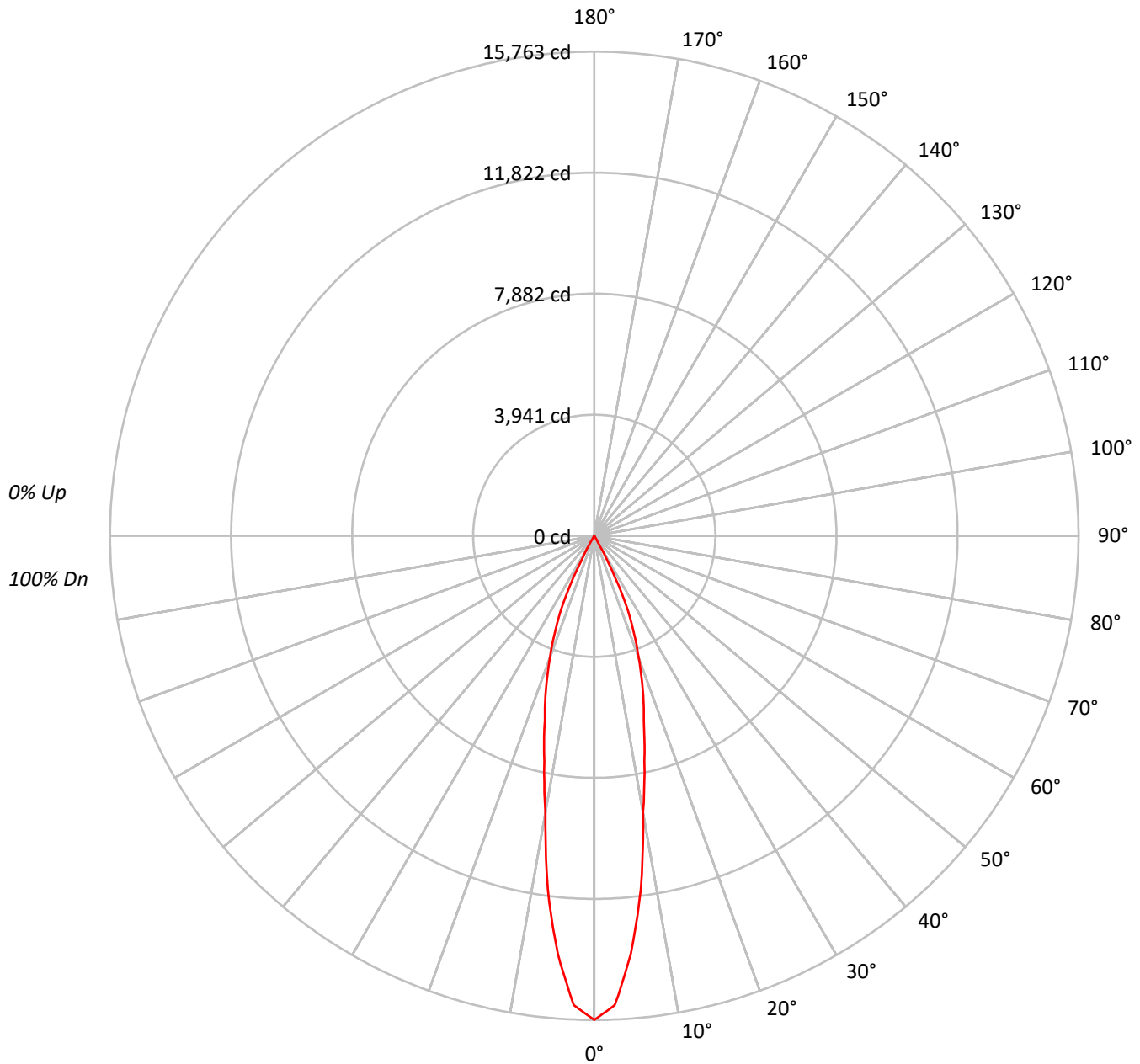
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	115	113	111	109	113	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	101	103	100	98		100	98	96		97
3	107	103	99	96	106	101	98	95	99	96	94		97	94	92		94
4	104	98	94	91	102	97	94	91	95	92	90		94	91	89		92
5	101	95	90	87	99	94	90	87	92	89	86		91	88	86		89
6	98	91	87	84	96	91	87	84	89	86	83		88	85	83		87
7	95	88	84	81	94	87	83	81	86	83	80		85	82	80		84
8	92	85	81	78	91	85	81	78	84	80	78		83	80	77		82
9	89	82	78	75	88	82	78	75	81	78	75		80	77	75		80
10	87	80	76	73	86	80	76	73	79	75	73		78	75	73		78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	678695
5°	590041
10°	399801
15°	277142
20°	193136
25°	111137
30°	8715
35°	715
40°	360
45°	244
50°	214
55°	180
60°	207
65°	245
70°	201
75°	133
80°	198
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.8	29.8
10°-20°	1750.0	44.8
20°-30°	964.1	24.7
30°-40°	19.9	0.5
40°-50°	3.2	0.1
50°-60°	2.4	0.1
60°-70°	2.1	0.1
70°-80°	1.0	0.0
80°-90°	0.1	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°	3875.9	99.3
0°-40°	3895.8	99.8
0°-60°	3901.4	99.9
0°-90°	3904.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3904.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15763	
5°	13652	###
15°	6218	1750
25°	2339	964
35°	14	20
45°	4	3
55°	2	2
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	15763.2
2.5°	15291.6
5°	13652.0
7.5°	11604.0
10°	9144.6
12.5°	7530.5
15°	6217.5
17.5°	5241.6
20°	4215.2
22.5°	3296.9
25°	2339.4
27.5°	998.4
30°	175.3
32.5°	22.4
35°	13.6
37.5°	8.8
40°	6.4
42.5°	4.8
45°	4.0
47.5°	3.2
50°	3.2
52.5°	3.2
55°	2.4
57.5°	2.4
60°	2.4
62.5°	2.4
65°	2.4
67.5°	1.6
70°	1.6
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)