

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: P208979

Luminaire Tested: **LDSQA6A45940D010TE LARH40FL 6LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26677)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A45940D010TE LARH40FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 40° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.3 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.61
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

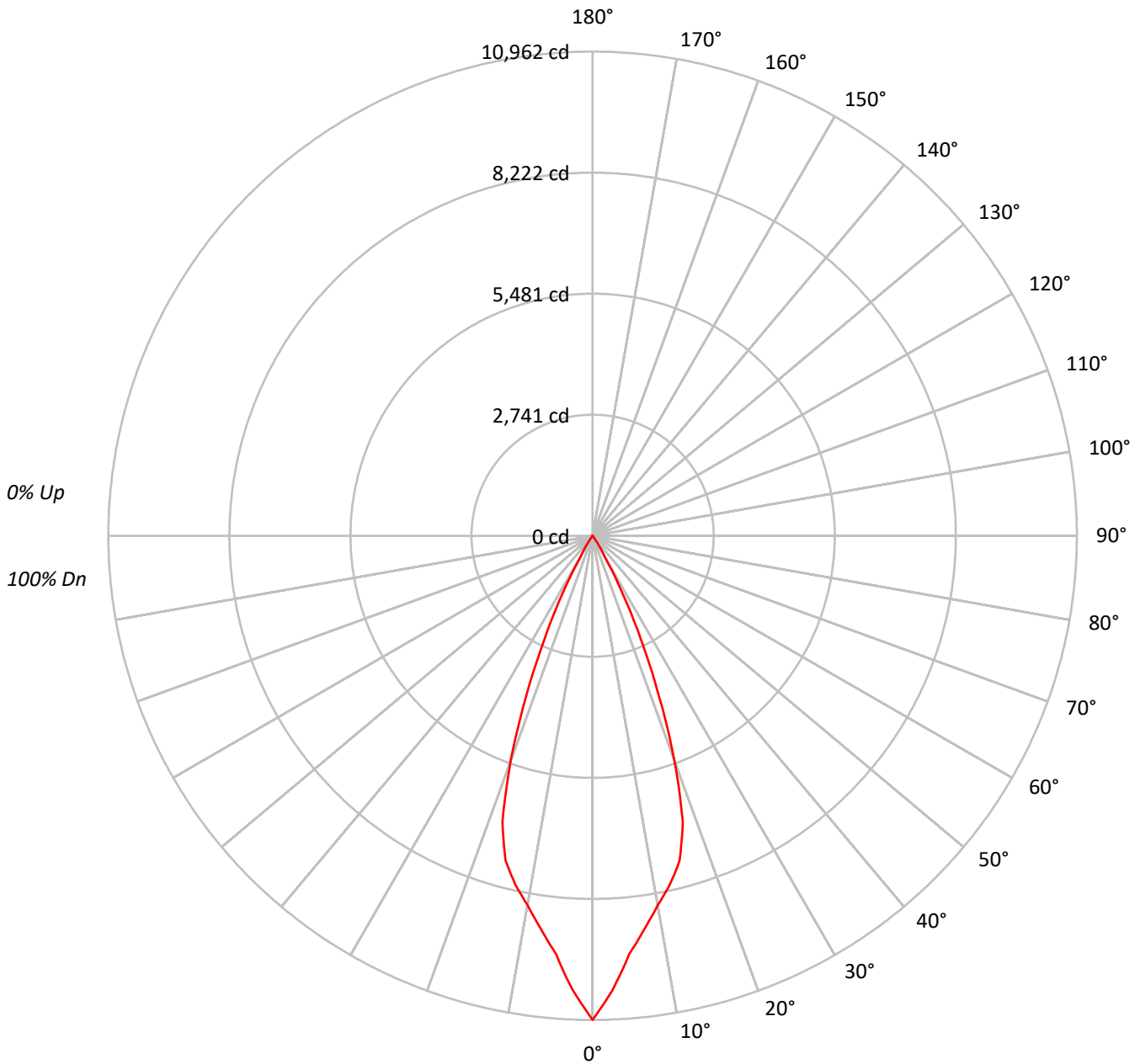
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	115	112	110	109	112	110	108	107	106	105	104	103	101	100	99	98	98	96				96
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92				92
3	107	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88				88
4	103	97	93	89	101	96	92	89	94	90	88	92	89	87	90	88	86	85				85
5	99	93	88	85	98	92	88	84	90	87	84	89	85	83	87	85	82	81				81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78				78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75				75
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72				72
9	86	79	74	71	85	79	74	71	78	74	71	77	73	71	76	73	71	70				70
10	84	76	72	69	83	76	71	69	75	71	68	74	71	68	74	70	68	67				67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	471972
5°	410894
10°	371260
15°	339230
20°	248402
25°	122577
30°	27215
35°	5514
40°	922
45°	274
50°	47
55°	53
60°	60
65°	71
70°	88
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.3	20.8
10°-20°	2044.9	48.3
20°-30°	1199.5	28.3
30°-40°	103.8	2.5
40°-50°	4.5	0.1
50°-60°	0.6	0.0
60°-70°	0.7	0.0
70°-80°	0.1	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°	4125.6	97.4
0°-40°	4229.4	99.9
0°-60°	4234.5	100.0
0°-90°	4235.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10962	
5°	9507	881
15°	7610	2045
25°	2580	1199
35°	105	104
45°	4	5
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10961.9
2.5°	10300.7
5°	9507.0
7.5°	8979.0
10°	8491.8
12.5°	8086.4
15°	7610.4
17.5°	6787.8
20°	5421.4
22.5°	3920.5
25°	2580.2
27.5°	1454.1
30°	547.4
32.5°	282.6
35°	104.9
37.5°	32.0
40°	16.4
42.5°	8.9
45°	4.5
47.5°	2.2
50°	0.7
52.5°	0.7
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7
67.5°	0.7
70°	0.7
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)