

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: P208915

Luminaire Tested: **LDSQA6A45940D010TE LARH20SP 6LSQA1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208915  
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: LDSQA6A45940D010TE LARH20SP 6LSQA1H  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM, SELF-FLANGED, 20° SPOT  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3627.6 lumens  
Efficiency: N/A  
Efficacy: 66.7 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

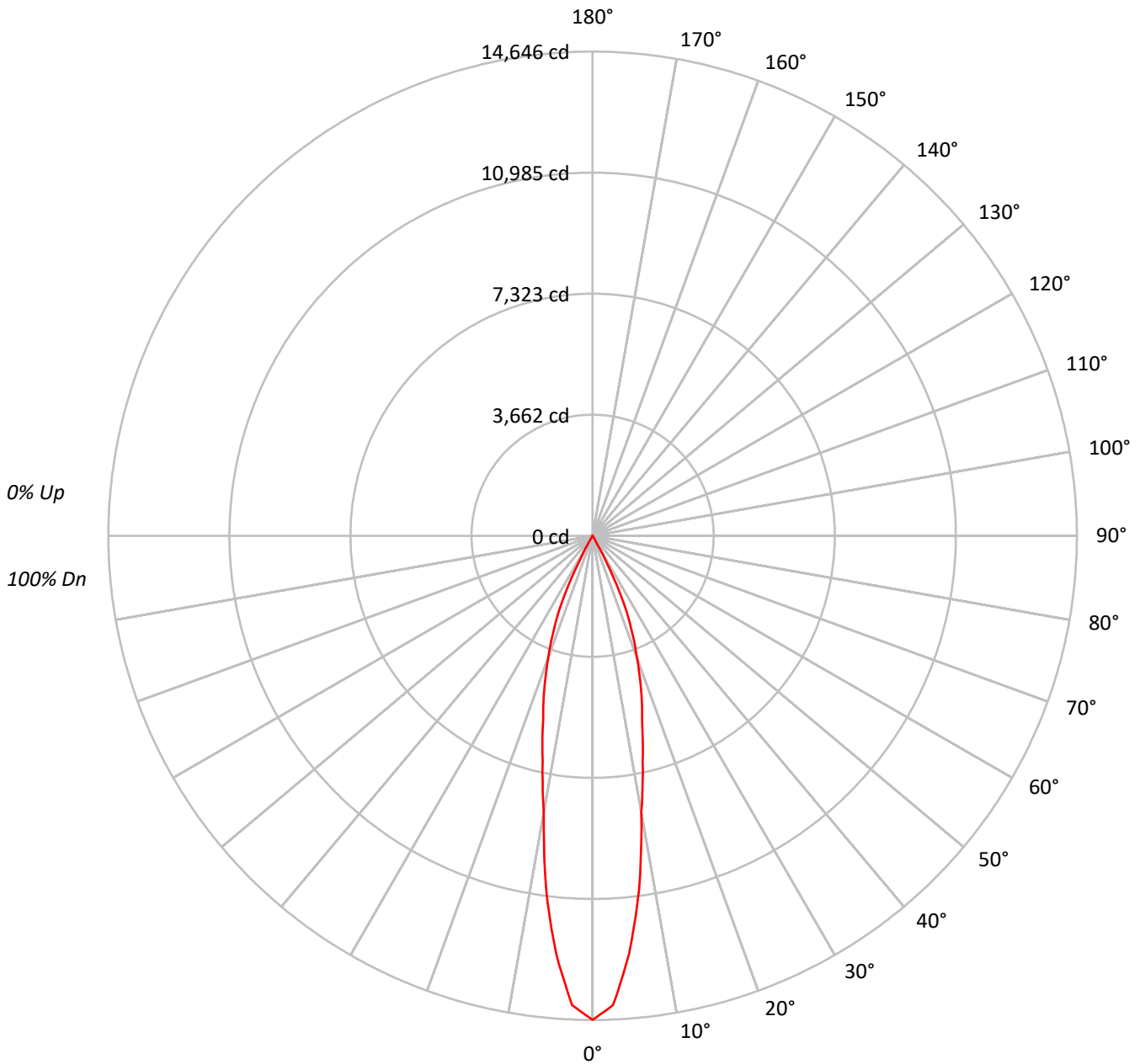
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93	93	93	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90	90	90	90
4	104	98	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	87	87	87
5	101	95	90	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	84	84	84
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	81	81	81
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78	78	78	78
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74	74	74	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	72	71	71	71	71

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	630572
5°	548204
10°	371453
15°	257494
20°	179440
25°	103256
30°	8099
35°	662
40°	337
45°	225
50°	201
55°	165
60°	189
65°	224
70°	189
75°	116
80°	174
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1079.4	29.8
10°-20°	1625.9	44.8
20°-30°	895.7	24.7
30°-40°	18.5	0.5
40°-50°	3.0	0.1
50°-60°	2.2	0.1
60°-70°	1.9	0.1
70°-80°	0.8	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°	3601.0	99.3
0°-40°	3619.5	99.8
0°-60°	3624.8	99.9
0°-90°	3627.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14646	
5°	12684	###
15°	5777	1626
25°	2174	896
35°	13	19
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°	14645.5
2.5°	14207.4
5°	12684.0
7.5°	10781.2
10°	8496.2
12.5°	6996.6
15°	5776.7
17.5°	4869.9
20°	3916.3
22.5°	3063.1
25°	2173.5
27.5°	927.6
30°	162.9
32.5°	20.8
35°	12.6
37.5°	8.2
40°	6.0
42.5°	4.5
45°	3.7
47.5°	3.0
50°	3.0
52.5°	3.0
55°	2.2
57.5°	2.2
60°	2.2
62.5°	2.2
65°	2.2
67.5°	1.5
70°	1.5
72.5°	0.7
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)