

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: P208917

Luminaire Tested: **LDSQA6A55830D010TE LARH20SP 6LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208917
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: LDSQA6A55830D010TE LARH20SP 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 20° SPOT
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4365.4 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

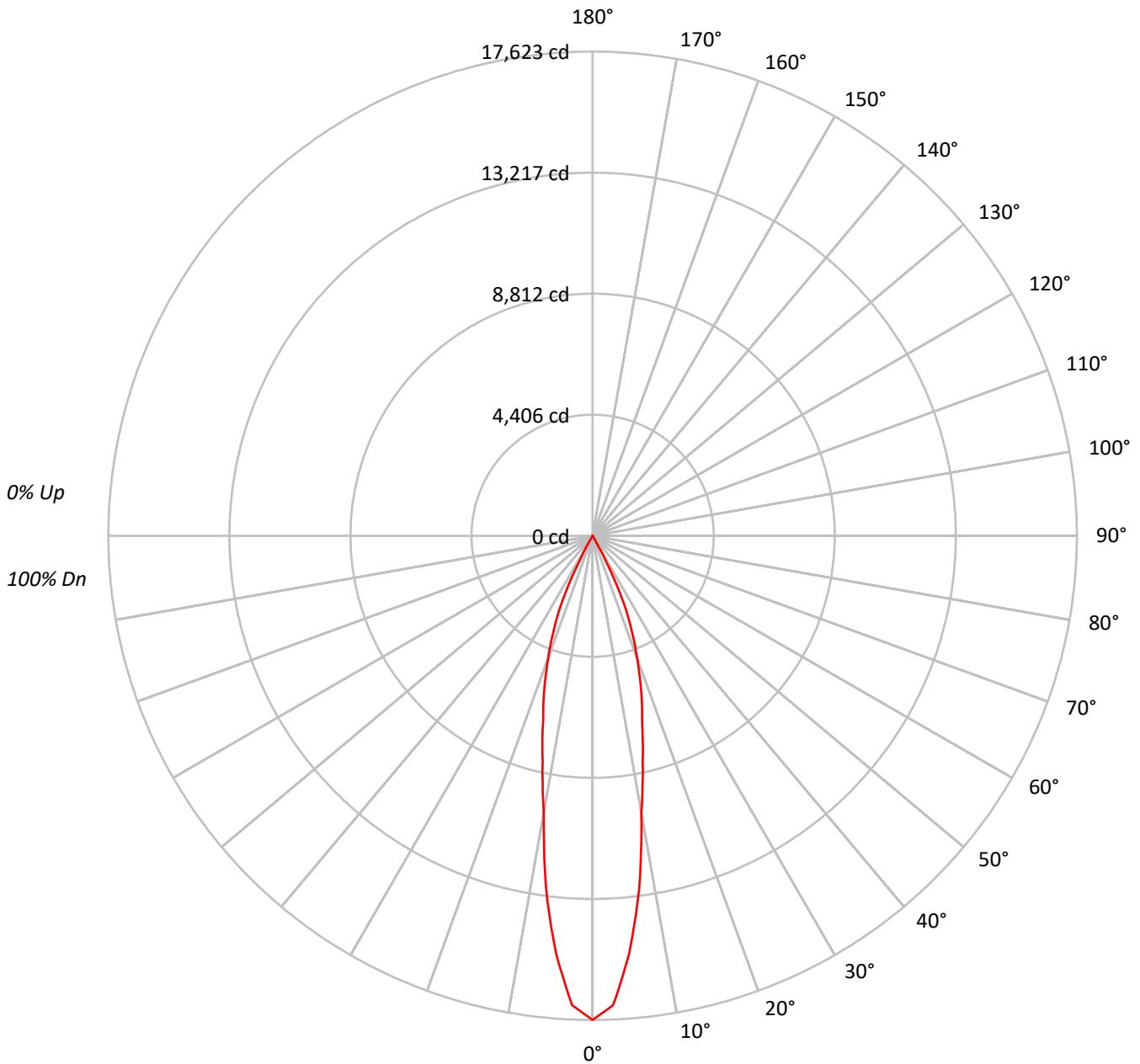
Input Watts (W): 60.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208917

CATALOG NUMBER: LDSQA6A55830D010TE LARH20SP 6LSQA1H

Luminous Intensity Polar Plot





TEST NUMBER: P208917

CATALOG NUMBER: LDSQA6A55830D010TE LARH20SP 6LSQA1H

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	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°	758783
5°	659669
10°	446979
15°	309846
20°	215926
25°	124249
30°	9744
35°	799
40°	405
45°	274
50°	241
55°	203
60°	233
65°	275
70°	227
75°	150
80°	223
85°	0



TEST NUMBER: P208917

CATALOG NUMBER: LDSQA6A55830D010TE LARH20SP 6LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1298.9	29.8
10°-20°	1956.5	44.8
20°-30°	1077.8	24.7
30°-40°	22.3	0.5
40°-50°	3.6	0.1
50°-60°	2.7	0.1
60°-70°	2.3	0.1
70°-80°	1.1	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°	4333.2	99.3
0°-40°	4355.5	99.8
0°-60°	4361.8	99.9
0°-90°	4365.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4365.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17623	
5°	15263	###
15°	6951	1956
25°	2615	1078
35°	15	22
45°	4	4
55°	3	3
65°	3	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P208917

CATALOG NUMBER: LDSQA6A55830D010TE LARH20SP 6LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	17623.3
2.5°	17096.1
5°	15263.0
7.5°	12973.4
10°	10223.7
12.5°	8419.2
15°	6951.2
17.5°	5860.1
20°	4712.6
22.5°	3686.0
25°	2615.4
27.5°	1116.2
30°	196.0
32.5°	25.1
35°	15.2
37.5°	9.8
40°	7.2
42.5°	5.4
45°	4.5
47.5°	3.6
50°	3.6
52.5°	3.6
55°	2.7
57.5°	2.7
60°	2.7
62.5°	2.7
65°	2.7
67.5°	1.8
70°	1.8
72.5°	0.9
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)