

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: P1212597

Luminaire Tested: **LDSQA6A50930D010TE LARH20SP 6LSQA1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212597
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: LDSQA6A50930D010TE LARH20SP 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 20° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

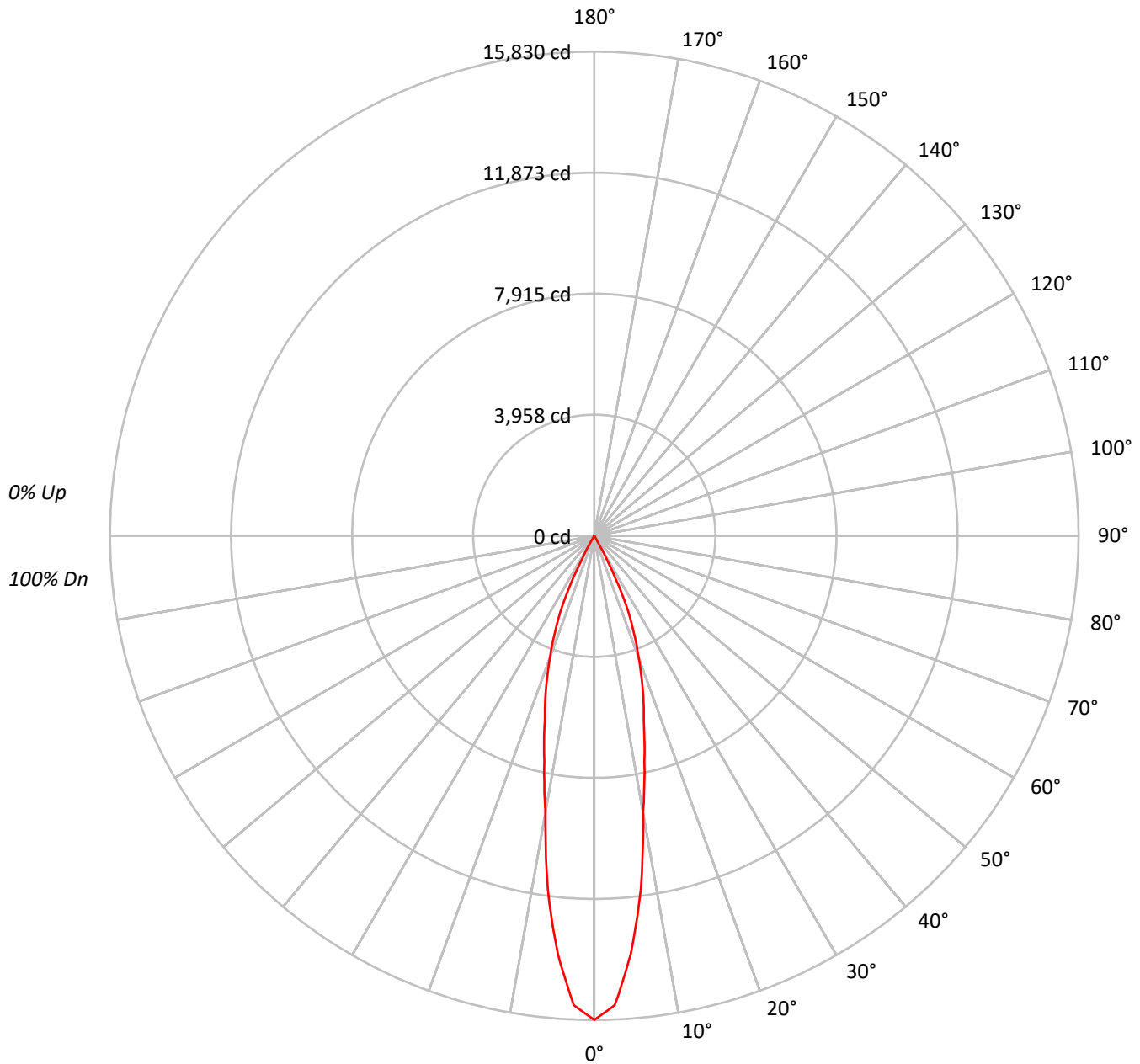
Lumens per Lamp: N/A
Luminaire Lumens: 3921.2 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.48
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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

TEST NUMBER: P1212597

CATALOG NUMBER: LDSQA6A50930D010TE LARH20SP 6LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212597

CATALOG NUMBER: LDSQA6A50930D010TE LARH20SP 6LSQA1H

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96		
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93		
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90		
4	104	98	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87		
5	101	95	90	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84		
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81		
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78		
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76		
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74		
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	72	71		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	681580
5°	592552
10°	401501
15°	278323
20°	193956
25°	111612
30°	8755
35°	720
40°	365
45°	244
50°	214
55°	180
60°	207
65°	245
70°	214
75°	133
80°	198
85°	0



TEST NUMBER: P1212597

CATALOG NUMBER: LDSQA6A50930D010TE LARH20SP 6LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1166.8	29.8
10°-20°	1757.4	44.8
20°-30°	968.2	24.7
30°-40°	20.0	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°	3892.3	99.3
0°-40°	3912.4	99.8
0°-60°	3918.0	99.9
0°-90°	3921.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3921.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15830	
5°	13710	###
15°	6244	1757
25°	2349	968
35°	14	20
45°	4	3
55°	2	2
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P1212597

CATALOG NUMBER: LDSQA6A50930D010TE LARH20SP 6LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	15830.2
2.5°	15356.6
5°	13710.1
7.5°	11653.3
10°	9183.5
12.5°	7562.5
15°	6244.0
17.5°	5263.9
20°	4233.1
22.5°	3311.0
25°	2349.4
27.5°	1002.6
30°	176.1
32.5°	22.5
35°	13.7
37.5°	8.8
40°	6.5
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°	1.7
70°	1.7
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

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)