

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: P274471

Luminaire Tested: **LDSQ6B15DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6B15DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MB
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT, CAST SHALLOW WITH MATTE BLACK FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1334.9 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

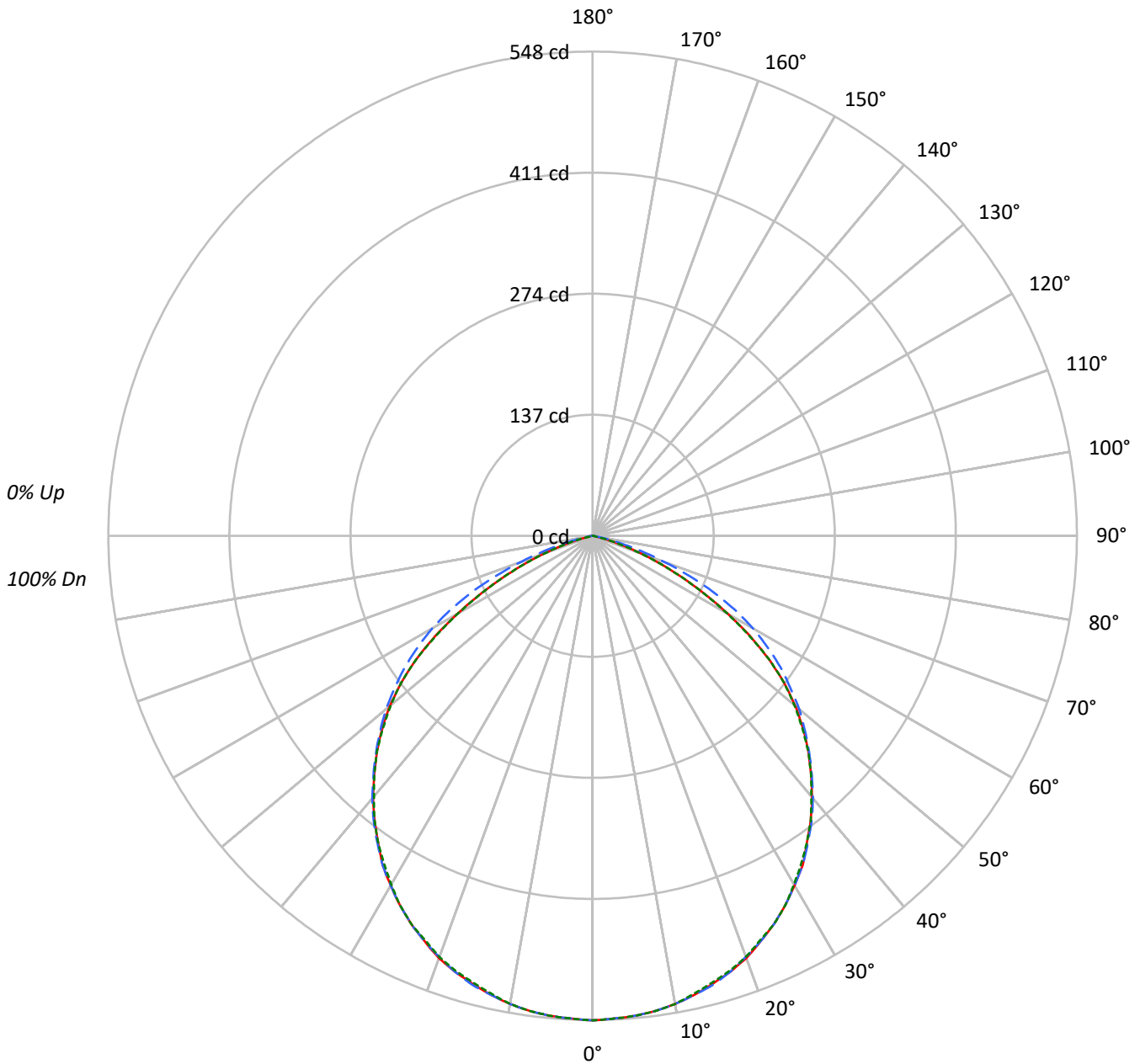
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75								
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64								
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56								
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	48								
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43								
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38								
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34								
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31								
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23616	23616	23616
5°	23577	23577	23577
10°	23526	23526	23526
15°	23397	23460	23330
20°	23308	23239	23239
25°	23045	23045	23045
30°	22720	22720	22651
35°	22239	22318	22239
40°	21712	21796	21628
45°	21007	21098	21007
50°	20048	20443	19947
55°	18263	19479	18263
60°	15233	18032	15104
65°	11421	15323	11421
70°	7238	10763	7050
75°	2445	5390	2445
80°	0	719	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	3.9
10°-20°	148.1	11.1
20°-30°	223.1	16.7
30°-40°	265.1	19.9
40°-50°	266.5	20.0
50°-60°	222.9	16.7
60°-70°	128.2	9.6
70°-80°	28.9	2.2
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°	423.1	31.7
0°-40°	688.2	51.6
0°-60°	1177.7	88.2
0°-90°	1334.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1334.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	546	546	546	546	546	52
15°	525	526	526	525	523	148
25°	485	485	485	484	485	223
35°	423	425	425	423	423	265
45°	345	346	346	345	345	266
55°	243	251	260	251	243	215
65°	112	127	150	128	112	112
75°	15	22	32	22	15	21
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.5	548.5	548.5	548.5	548.5
2.5°	547.0	548.5	547.0	548.5	547.0
5°	545.5	545.5	545.5	545.5	545.5
7.5°	542.6	542.6	542.6	542.6	542.6
10°	538.1	538.1	538.1	536.7	538.1
12.5°	532.2	532.2	532.2	530.8	530.8
15°	524.9	526.3	526.3	524.9	523.4
17.5°	517.5	517.5	517.5	516.0	516.0
20°	508.7	507.2	507.2	507.2	507.2
22.5°	496.9	496.9	496.9	495.4	495.4
25°	485.1	485.1	485.1	483.6	485.1
27.5°	471.8	470.3	471.8	470.3	471.8
30°	457.0	457.0	457.0	457.0	455.6
32.5°	442.3	442.3	442.3	440.8	439.4
35°	423.1	424.6	424.6	423.1	423.1
37.5°	405.4	406.9	406.9	405.4	405.4
40°	386.3	387.8	387.8	387.8	384.8
42.5°	365.6	367.1	367.1	367.1	365.6
45°	345.0	346.5	346.5	345.0	345.0
47.5°	322.9	324.4	325.8	324.4	321.4
50°	299.3	302.2	305.2	302.2	297.8
52.5°	272.8	278.7	281.6	278.7	272.8
55°	243.3	250.6	259.5	250.6	243.3
57.5°	210.8	222.6	234.4	221.2	209.4
60°	176.9	191.7	209.4	190.2	175.4
62.5°	143.0	159.2	181.3	159.2	143.0
65°	112.1	126.8	150.4	128.3	112.1
67.5°	82.6	97.3	117.9	97.3	82.6
70°	57.5	69.3	85.5	69.3	56.0
72.5°	33.9	44.2	57.5	44.2	32.4
75°	14.7	22.1	32.4	22.1	14.7
77.5°	2.9	5.9	13.3	7.4	2.9
80°	0.0	0.0	2.9	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)