

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: P274474

Luminaire Tested: **LDSQ6B15DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274474
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: LDSQ6B15DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MB
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT, CAST SHALLOW WITH MATTE BLACK FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1163.2 lumens
Efficiency: N/A
Efficacy: 52.9 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

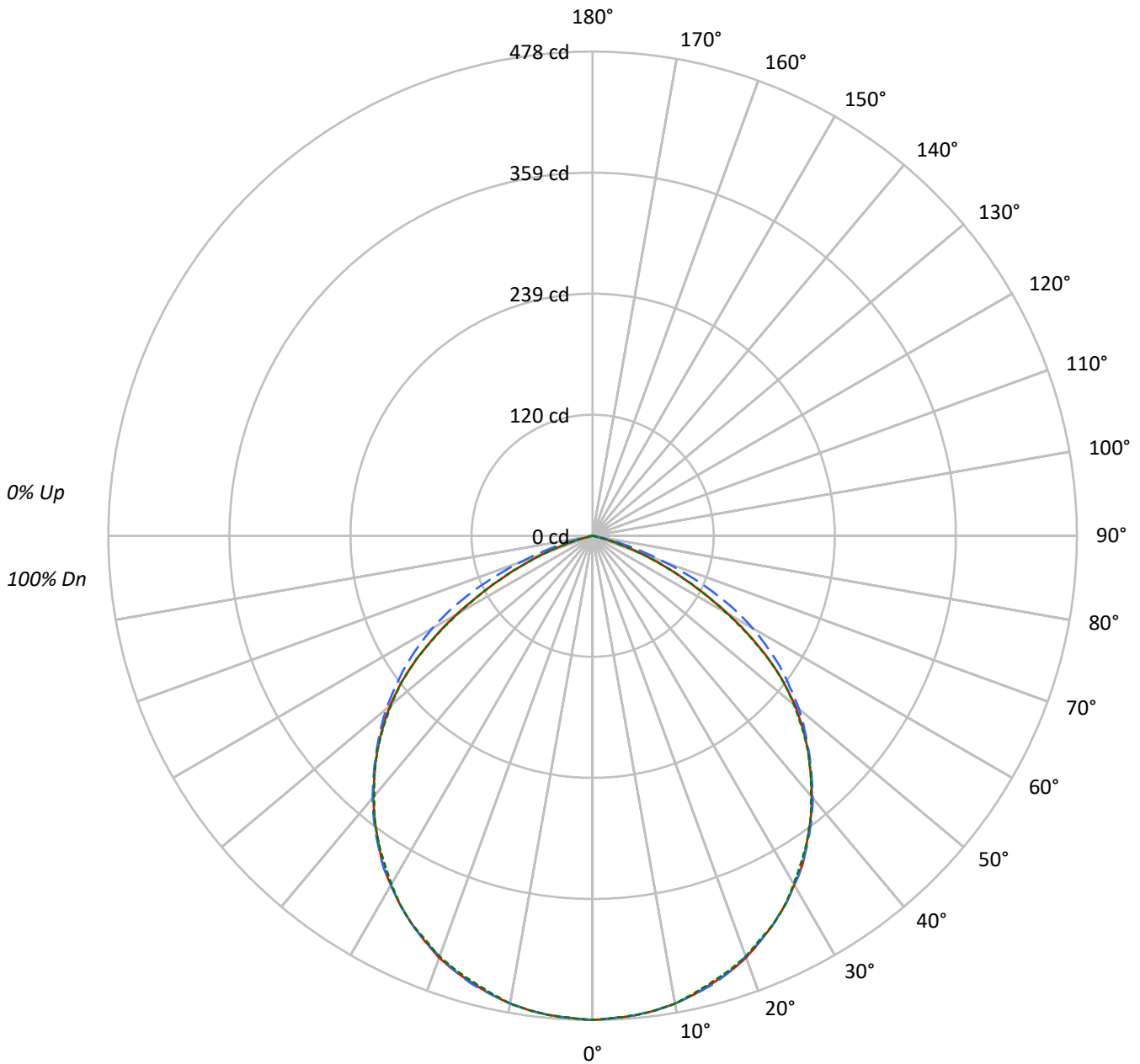
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	48				48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20576	20576	20576
5°	20543	20543	20543
10°	20500	20500	20500
15°	20384	20442	20326
20°	20307	20247	20247
25°	20076	20076	20076
30°	19797	19797	19732
35°	19379	19448	19379
40°	18919	18992	18846
45°	18304	18383	18304
50°	17469	17811	17382
55°	15914	16972	15914
60°	13278	15707	13166
65°	9943	13346	9943
70°	6307	9379	6143
75°	2129	4708	2129
80°	0	645	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	3.9
10°-20°	129.1	11.1
20°-30°	194.4	16.7
30°-40°	231.0	19.9
40°-50°	232.2	20.0
50°-60°	194.2	16.7
60°-70°	111.7	9.6
70°-80°	25.2	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°	368.7	31.7
0°-40°	599.7	51.6
0°-60°	1026.1	88.2
0°-90°	1163.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	475	475	475	475	475	45
15°	457	459	459	457	456	129
25°	423	423	423	421	423	195
35°	369	370	370	369	369	231
45°	301	302	302	301	301	231
55°	212	218	226	218	212	188
65°	98	110	131	112	98	98
75°	13	19	28	19	13	18
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°	477.9	477.9	477.9	477.9	477.9
2.5°	476.6	477.9	476.6	477.9	476.6
5°	475.3	475.3	475.3	475.3	475.3
7.5°	472.7	472.7	472.7	472.7	472.7
10°	468.9	468.9	468.9	467.6	468.9
12.5°	463.7	463.7	463.7	462.5	462.5
15°	457.3	458.6	458.6	457.3	456.0
17.5°	450.9	450.9	450.9	449.6	449.6
20°	443.2	441.9	441.9	441.9	441.9
22.5°	432.9	432.9	432.9	431.6	431.6
25°	422.6	422.6	422.6	421.4	422.6
27.5°	411.1	409.8	411.1	409.8	411.1
30°	398.2	398.2	398.2	398.2	396.9
32.5°	385.4	385.4	385.4	384.1	382.8
35°	368.7	370.0	370.0	368.7	368.7
37.5°	353.3	354.6	354.6	353.3	353.3
40°	336.6	337.9	337.9	337.9	335.3
42.5°	318.6	319.9	319.9	319.9	318.6
45°	300.6	301.9	301.9	300.6	300.6
47.5°	281.3	282.6	283.9	282.6	280.0
50°	260.8	263.3	265.9	263.3	259.5
52.5°	237.7	242.8	245.4	242.8	237.7
55°	212.0	218.4	226.1	218.4	212.0
57.5°	183.7	194.0	204.3	192.7	182.4
60°	154.2	167.0	182.4	165.7	152.9
62.5°	124.6	138.7	158.0	138.7	124.6
65°	97.6	110.5	131.0	111.8	97.6
67.5°	71.9	84.8	102.8	84.8	71.9
70°	50.1	60.4	74.5	60.4	48.8
72.5°	29.5	38.5	50.1	38.5	28.3
75°	12.8	19.3	28.3	19.3	12.8
77.5°	2.6	5.1	11.6	6.4	2.6
80°	0.0	0.0	2.6	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)