

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: P274473

Luminaire Tested: **LDSQ6B10DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274473
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: LDSQ6B10DE010W2N2050 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: 806.0 lumens
Efficiency: N/A
Efficacy: 57.6 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

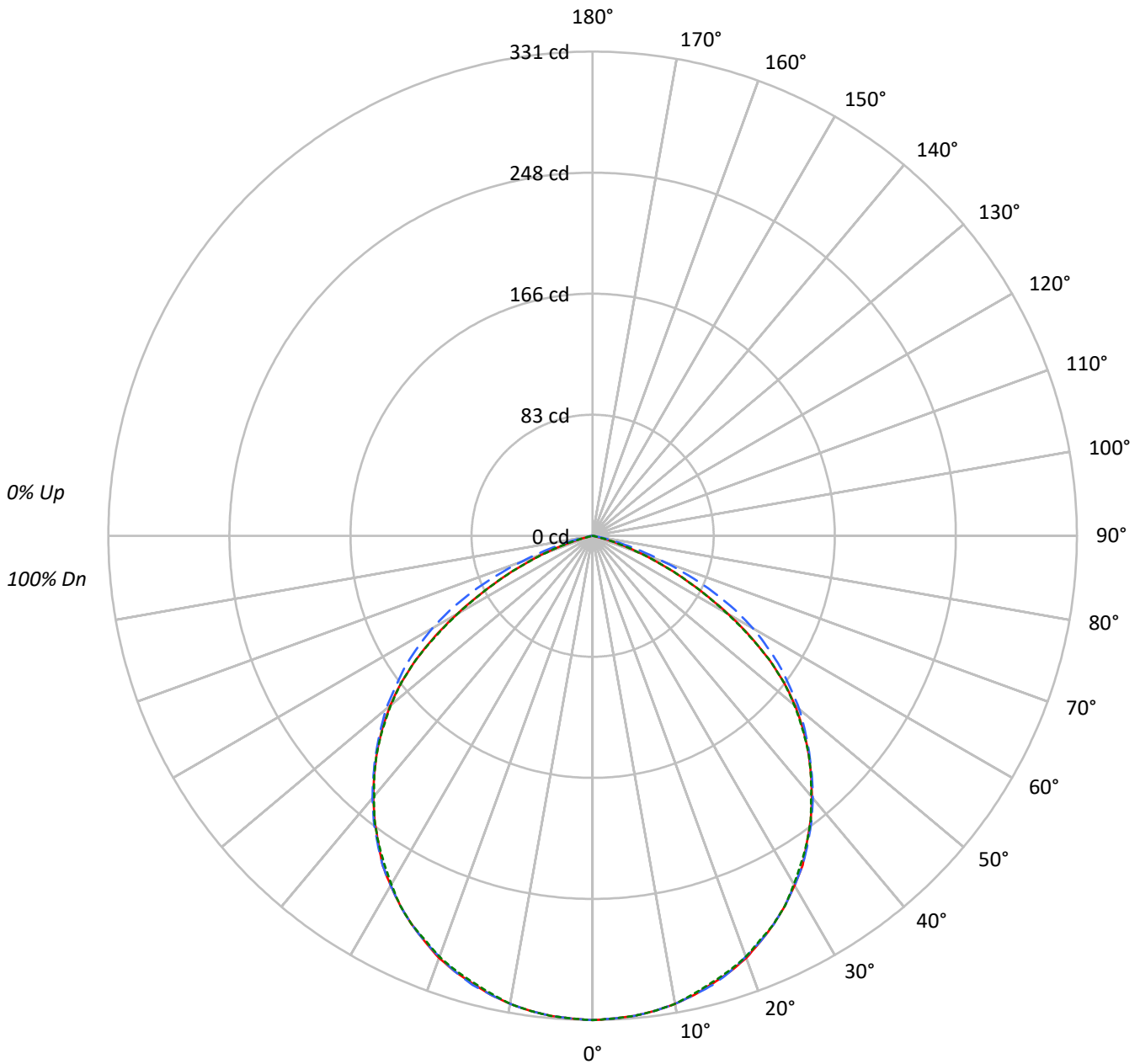
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14256	14256	14256
5°	14237	14237	14237
10°	14205	14205	14205
15°	14126	14166	14086
20°	14071	14030	14030
25°	13915	13915	13915
30°	13722	13722	13677
35°	13429	13477	13429
40°	13107	13158	13056
45°	12683	12738	12683
50°	12104	12345	12043
55°	11027	11763	11027
60°	9197	10884	9119
65°	6897	9251	6897
70°	4368	6496	4255
75°	1481	3261	1481
80°	0	446	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	3.9
10°-20°	89.4	11.1
20°-30°	134.7	16.7
30°-40°	160.1	19.9
40°-50°	160.9	20.0
50°-60°	134.6	16.7
60°-70°	77.4	9.6
70°-80°	17.5	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°	255.5	31.7
0°-40°	415.6	51.6
0°-60°	711.1	88.2
0°-90°	806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	331	331	331	331	331	
5°	329	329	329	329	329	31
15°	317	318	318	317	316	90
25°	293	293	293	292	293	135
35°	256	256	256	256	256	160
45°	208	209	209	208	208	160
55°	147	151	157	151	147	130
65°	68	77	91	77	68	68
75°	9	13	20	13	9	13
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°	331.1	331.1	331.1	331.1	331.1
2.5°	330.3	331.1	330.3	331.1	330.3
5°	329.4	329.4	329.4	329.4	329.4
7.5°	327.6	327.6	327.6	327.6	327.6
10°	324.9	324.9	324.9	324.0	324.9
12.5°	321.4	321.4	321.4	320.5	320.5
15°	316.9	317.8	317.8	316.9	316.0
17.5°	312.4	312.4	312.4	311.6	311.6
20°	307.1	306.2	306.2	306.2	306.2
22.5°	300.0	300.0	300.0	299.1	299.1
25°	292.9	292.9	292.9	292.0	292.9
27.5°	284.9	284.0	284.9	284.0	284.9
30°	276.0	276.0	276.0	276.0	275.1
32.5°	267.1	267.1	267.1	266.2	265.3
35°	255.5	256.4	256.4	255.5	255.5
37.5°	244.8	245.7	245.7	244.8	244.8
40°	233.2	234.1	234.1	234.1	232.3
42.5°	220.8	221.7	221.7	221.7	220.8
45°	208.3	209.2	209.2	208.3	208.3
47.5°	194.9	195.8	196.7	195.8	194.1
50°	180.7	182.5	184.3	182.5	179.8
52.5°	164.7	168.2	170.0	168.2	164.7
55°	146.9	151.3	156.7	151.3	146.9
57.5°	127.3	134.4	141.5	133.5	126.4
60°	106.8	115.7	126.4	114.8	105.9
62.5°	86.3	96.1	109.5	96.1	86.3
65°	67.7	76.6	90.8	77.4	67.7
67.5°	49.8	58.8	71.2	58.8	49.8
70°	34.7	41.8	51.6	41.8	33.8
72.5°	20.5	26.7	34.7	26.7	19.6
75°	8.9	13.4	19.6	13.4	8.9
77.5°	1.8	3.6	8.0	4.5	1.8
80°	0.0	0.0	1.8	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)