

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: P274475

Luminaire Tested: **LDSQ6B20DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274475
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: LDSQ6B20DE010W2N2050 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: 1418.8 lumens
Efficiency: N/A
Efficacy: 50.7 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

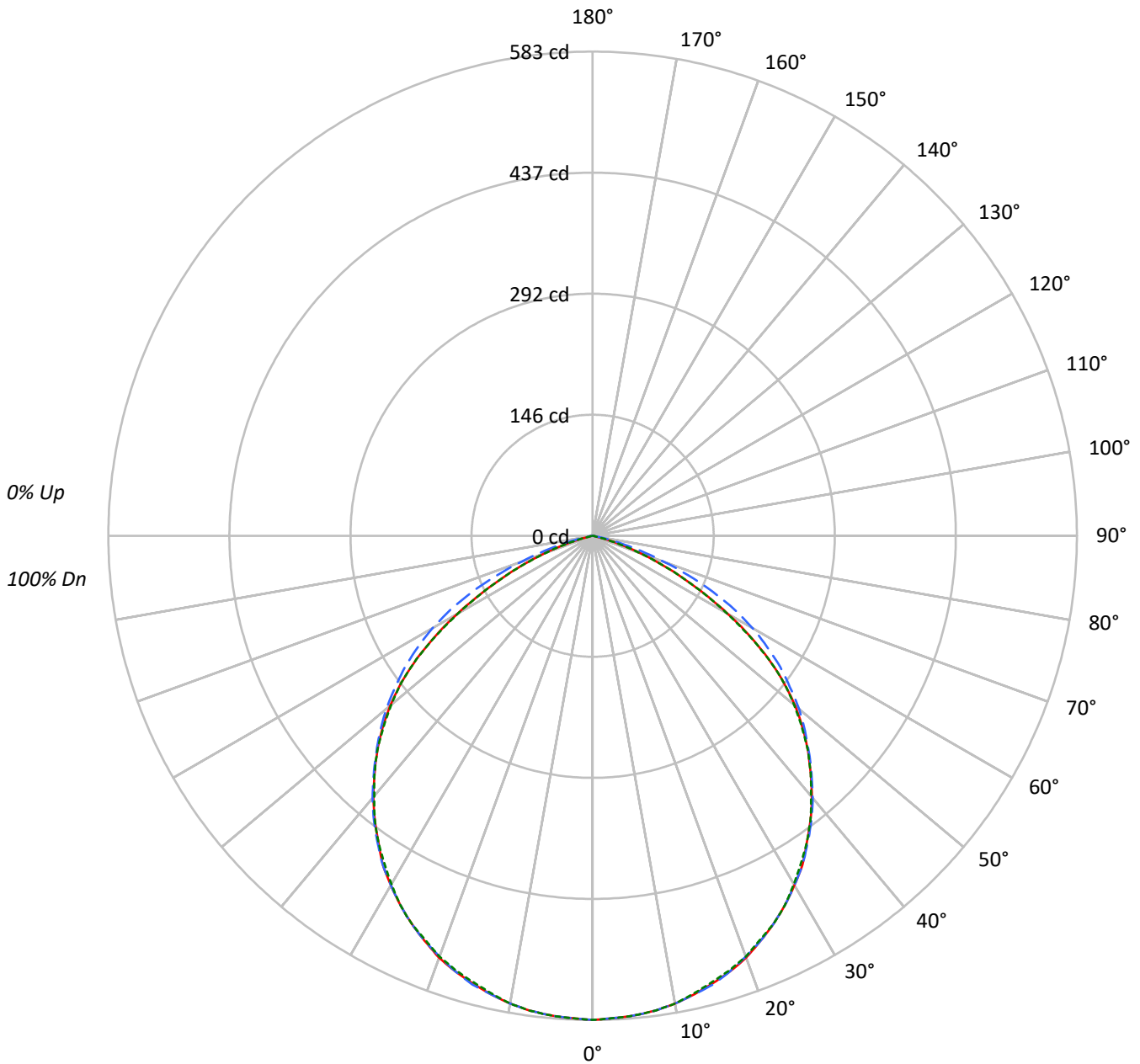
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	25097	25097	25097
5°	25059	25059	25059
10°	25008	25008	25008
15°	24868	24935	24797
20°	24770	24701	24701
25°	24490	24490	24490
30°	24152	24152	24073
35°	23637	23721	23637
40°	23078	23162	22988
45°	22328	22420	22328
50°	21307	21729	21200
55°	19412	20703	19412
60°	16189	19160	16060
65°	12134	16280	12134
70°	7692	11443	7490
75°	2612	5739	2612
80°	0	769	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.9
10°-20°	157.5	11.1
20°-30°	237.2	16.7
30°-40°	281.8	19.9
40°-50°	283.3	20.0
50°-60°	236.9	16.7
60°-70°	136.3	9.6
70°-80°	30.8	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°	449.7	31.7
0°-40°	731.5	51.6
0°-60°	1251.7	88.2
0°-90°	1418.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	580	580	580	580	580	55
15°	558	559	559	558	556	158
25°	516	516	516	514	516	237
35°	450	451	451	450	450	282
45°	367	368	368	367	367	282
55°	259	266	276	266	259	229
65°	119	135	160	136	119	119
75°	16	24	34	24	16	22
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°	582.9	582.9	582.9	582.9	582.9
2.5°	581.4	582.9	581.4	582.9	581.4
5°	579.8	579.8	579.8	579.8	579.8
7.5°	576.7	576.7	576.7	576.7	576.7
10°	572.0	572.0	572.0	570.4	572.0
12.5°	565.7	565.7	565.7	564.1	564.1
15°	557.9	559.4	559.4	557.9	556.3
17.5°	550.0	550.0	550.0	548.5	548.5
20°	540.6	539.1	539.1	539.1	539.1
22.5°	528.1	528.1	528.1	526.5	526.5
25°	515.5	515.5	515.5	514.0	515.5
27.5°	501.4	499.9	501.4	499.9	501.4
30°	485.8	485.8	485.8	485.8	484.2
32.5°	470.1	470.1	470.1	468.5	467.0
35°	449.7	451.3	451.3	449.7	449.7
37.5°	430.9	432.5	432.5	430.9	430.9
40°	410.6	412.1	412.1	412.1	409.0
42.5°	388.6	390.2	390.2	390.2	388.6
45°	366.7	368.2	368.2	366.7	366.7
47.5°	343.2	344.7	346.3	344.7	341.6
50°	318.1	321.2	324.4	321.2	316.5
52.5°	289.9	296.2	299.3	296.2	289.9
55°	258.6	266.4	275.8	266.4	258.6
57.5°	224.1	236.6	249.2	235.1	222.5
60°	188.0	203.7	222.5	202.1	186.5
62.5°	152.0	169.2	192.7	169.2	152.0
65°	119.1	134.8	159.8	136.3	119.1
67.5°	87.8	103.4	125.4	103.4	87.8
70°	61.1	73.6	90.9	73.6	59.5
72.5°	36.0	47.0	61.1	47.0	34.5
75°	15.7	23.5	34.5	23.5	15.7
77.5°	3.1	6.3	14.1	7.8	3.1
80°	0.0	0.0	3.1	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)