

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: P274484

Luminaire Tested: **LDSQ6B20DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-38)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQ6B20DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MW  
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1795.4 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.46' x L: 0.46' x H: 0')  
CIE Type: Direct

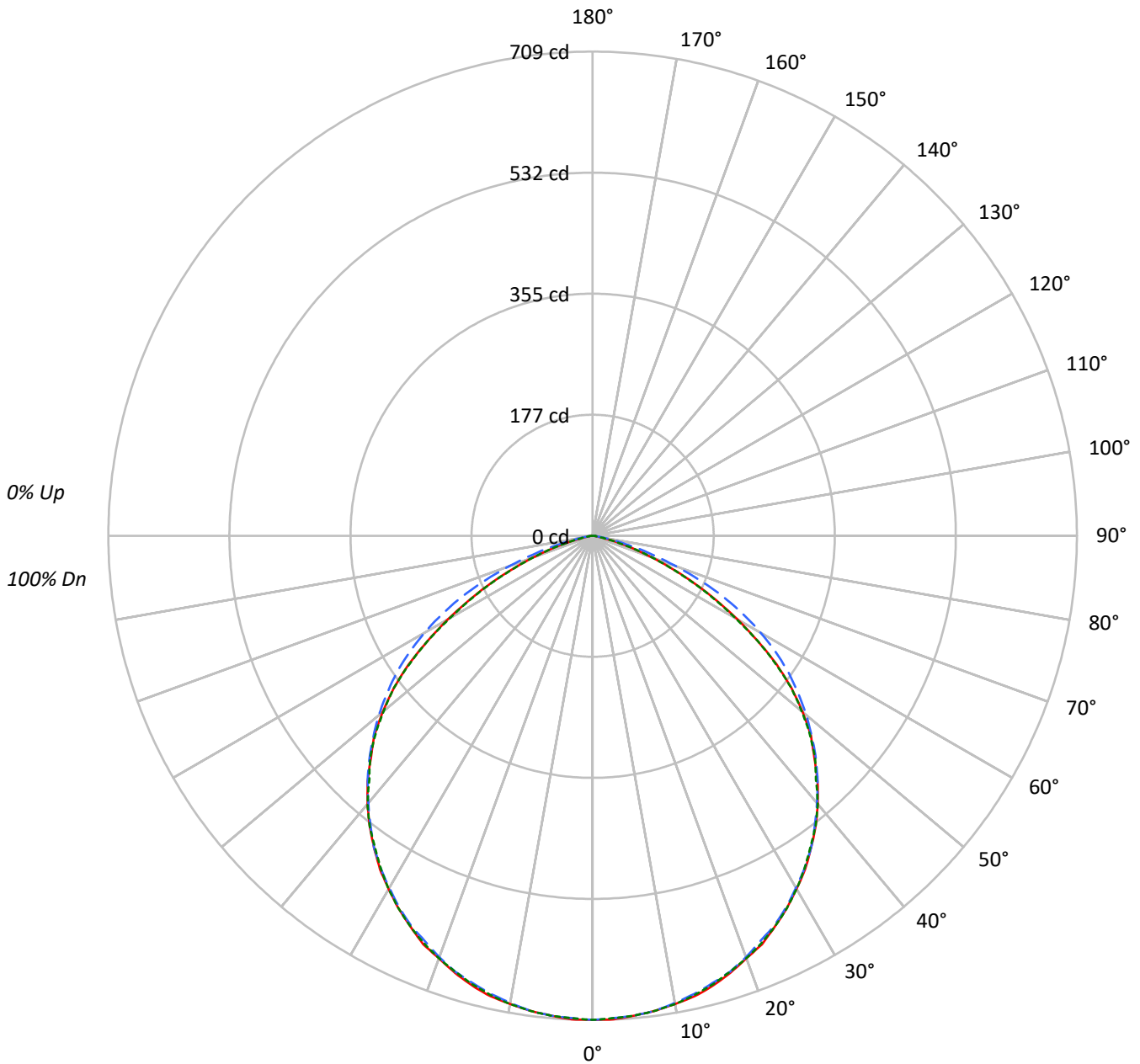
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87																			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	63																			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54																			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	36319	36319	36319
5°	36272	36272	36272
10°	36224	36130	36224
15°	36168	35977	36072
20°	35901	35803	35901
25°	35697	35596	35697
30°	35334	35228	35334
35°	34885	34885	34773
40°	34294	34174	34294
45°	33239	33500	33370
50°	31982	32556	31838
55°	29409	31338	29248
60°	25077	29125	24708
65°	19848	25522	19629
70°	13738	19131	13738
75°	7127	11760	7127
80°	2656	4249	2656
85°	2116	2116	2116



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	3.7
10°-20°	191.8	10.7
20°-30°	290.3	16.2
30°-40°	348.3	19.4
40°-50°	355.0	19.8
50°-60°	301.3	16.8
60°-70°	182.5	10.2
70°-80°	54.3	3.0
80°-90°	4.8	0.3
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°	549.1	30.6
0°-40°	897.4	50.0
0°-60°	1553.8	86.5
0°-90°	1795.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	705	705	705	705	705	67
15°	682	680	678	680	680	192
25°	631	631	630	630	631	291
35°	558	558	558	558	556	349
45°	459	460	462	462	460	354
55°	329	340	351	340	327	291
65°	164	184	210	182	162	163
75°	36	47	59	45	36	44
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	708.8	708.8	708.8	708.8	708.8
2.5°	708.8	707.0	707.0	708.8	707.0
5°	705.2	705.2	705.2	705.2	705.2
7.5°	701.6	699.8	701.6	701.6	701.6
10°	696.2	696.2	694.4	696.2	696.2
12.5°	690.8	687.2	687.2	689.0	689.0
15°	681.8	680.0	678.2	680.0	680.0
17.5°	671.0	669.2	669.2	671.0	669.2
20°	658.4	656.6	656.6	658.4	658.4
22.5°	647.6	644.0	642.2	645.8	645.8
25°	631.4	631.4	629.6	629.6	631.4
27.5°	615.2	613.4	613.4	613.4	615.2
30°	597.2	595.4	595.4	597.2	597.2
32.5°	579.2	577.4	577.4	579.2	577.4
35°	557.7	557.7	557.7	557.7	555.9
37.5°	536.1	534.3	534.3	534.3	536.1
40°	512.7	510.9	510.9	512.7	512.7
42.5°	487.5	485.7	487.5	487.5	483.9
45°	458.7	460.5	462.3	462.3	460.5
47.5°	433.5	433.5	435.3	433.5	431.7
50°	401.2	403.0	408.4	404.8	399.4
52.5°	367.0	372.4	379.6	374.2	367.0
55°	329.2	340.0	350.8	340.0	327.4
57.5°	286.0	302.2	318.4	302.2	286.0
60°	244.7	262.6	284.2	262.6	241.1
62.5°	203.3	221.3	248.2	221.3	201.5
65°	163.7	183.5	210.5	181.7	161.9
67.5°	125.9	143.9	169.1	143.9	124.1
70°	91.7	107.9	127.7	107.9	91.7
72.5°	63.0	73.8	91.7	75.6	61.2
75°	36.0	46.8	59.4	45.0	36.0
77.5°	18.0	23.4	32.4	23.4	18.0
80°	9.0	10.8	14.4	10.8	9.0
82.5°	5.4	7.2	7.2	7.2	5.4
85°	3.6	3.6	3.6	3.6	3.6
87.5°	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)