

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: P274483

Luminaire Tested: **LDSQ6B15DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274483  
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: LDSQ6B15DE010W2N2765 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: 1474.7 lumens  
Efficiency: N/A  
Efficacy: 67.0 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

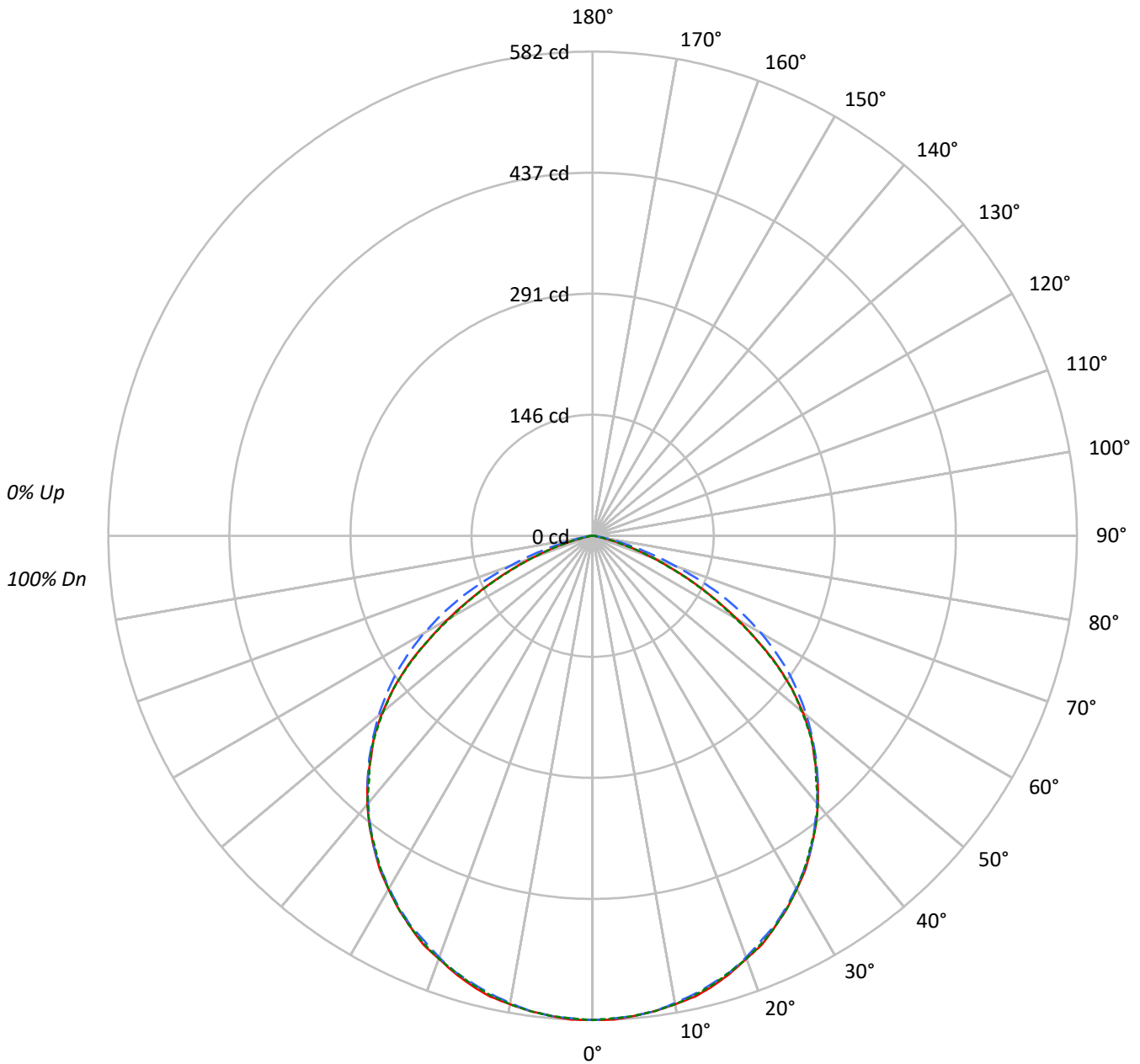
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	29827	29827	29827
5°	29791	29791	29791
10°	29751	29673	29751
15°	29707	29547	29627
20°	29489	29407	29489
25°	29320	29235	29320
30°	29021	28938	29021
35°	28649	28649	28555
40°	28167	28067	28167
45°	27304	27515	27406
50°	26266	26736	26147
55°	24156	25737	24022
60°	20588	23919	20291
65°	16307	20963	16125
70°	11296	15716	11296
75°	5860	9661	5860
80°	2184	3482	2184
85°	1764	1764	1764



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.0	3.7
10°-20°	157.6	10.7
20°-30°	238.4	16.2
30°-40°	286.1	19.4
40°-50°	291.6	19.8
50°-60°	247.5	16.8
60°-70°	149.9	10.2
70°-80°	44.6	3.0
80°-90°	4.0	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°	451.0	30.6
0°-40°	737.1	50.0
0°-60°	1276.1	86.5
0°-90°	1474.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	579	579	579	579	579	55
15°	560	558	557	558	558	158
25°	519	519	517	517	519	239
35°	458	458	458	458	456	287
45°	377	378	380	380	378	291
55°	270	279	288	279	269	239
65°	134	151	173	149	133	134
75°	30	38	49	37	30	36
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.1	582.1	582.1	582.1	582.1
2.5°	582.1	580.7	580.7	582.1	580.7
5°	579.2	579.2	579.2	579.2	579.2
7.5°	576.2	574.7	576.2	576.2	576.2
10°	571.8	571.8	570.3	571.8	571.8
12.5°	567.4	564.4	564.4	565.9	565.9
15°	560.0	558.5	557.0	558.5	558.5
17.5°	551.1	549.6	549.6	551.1	549.6
20°	540.8	539.3	539.3	540.8	540.8
22.5°	531.9	528.9	527.5	530.4	530.4
25°	518.6	518.6	517.1	517.1	518.6
27.5°	505.3	503.8	503.8	503.8	505.3
30°	490.5	489.1	489.1	490.5	490.5
32.5°	475.8	474.3	474.3	475.8	474.3
35°	458.0	458.0	458.0	458.0	456.5
37.5°	440.3	438.8	438.8	438.8	440.3
40°	421.1	419.6	419.6	421.1	421.1
42.5°	400.4	398.9	400.4	400.4	397.4
45°	376.8	378.2	379.7	379.7	378.2
47.5°	356.1	356.1	357.6	356.1	354.6
50°	329.5	331.0	335.4	332.4	328.0
52.5°	301.4	305.8	311.8	307.3	301.4
55°	270.4	279.2	288.1	279.2	268.9
57.5°	234.9	248.2	261.5	248.2	234.9
60°	200.9	215.7	233.4	215.7	198.0
62.5°	167.0	181.7	203.9	181.7	165.5
65°	134.5	150.7	172.9	149.2	133.0
67.5°	103.4	118.2	138.9	118.2	101.9
70°	75.4	88.7	104.9	88.7	75.4
72.5°	51.7	60.6	75.4	62.1	50.2
75°	29.6	38.4	48.8	36.9	29.6
77.5°	14.8	19.2	26.6	19.2	14.8
80°	7.4	8.9	11.8	8.9	7.4
82.5°	4.4	5.9	5.9	5.9	4.4
85°	3.0	3.0	3.0	3.0	3.0
87.5°	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)