

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: P274470

Luminaire Tested: **LDSQ6B10DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274470
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: LDSQ6B10DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MB
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT, CAST SHALLOW WITH MATTE BLACK FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 905.0 lumens
Efficiency: N/A
Efficacy: 64.6 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

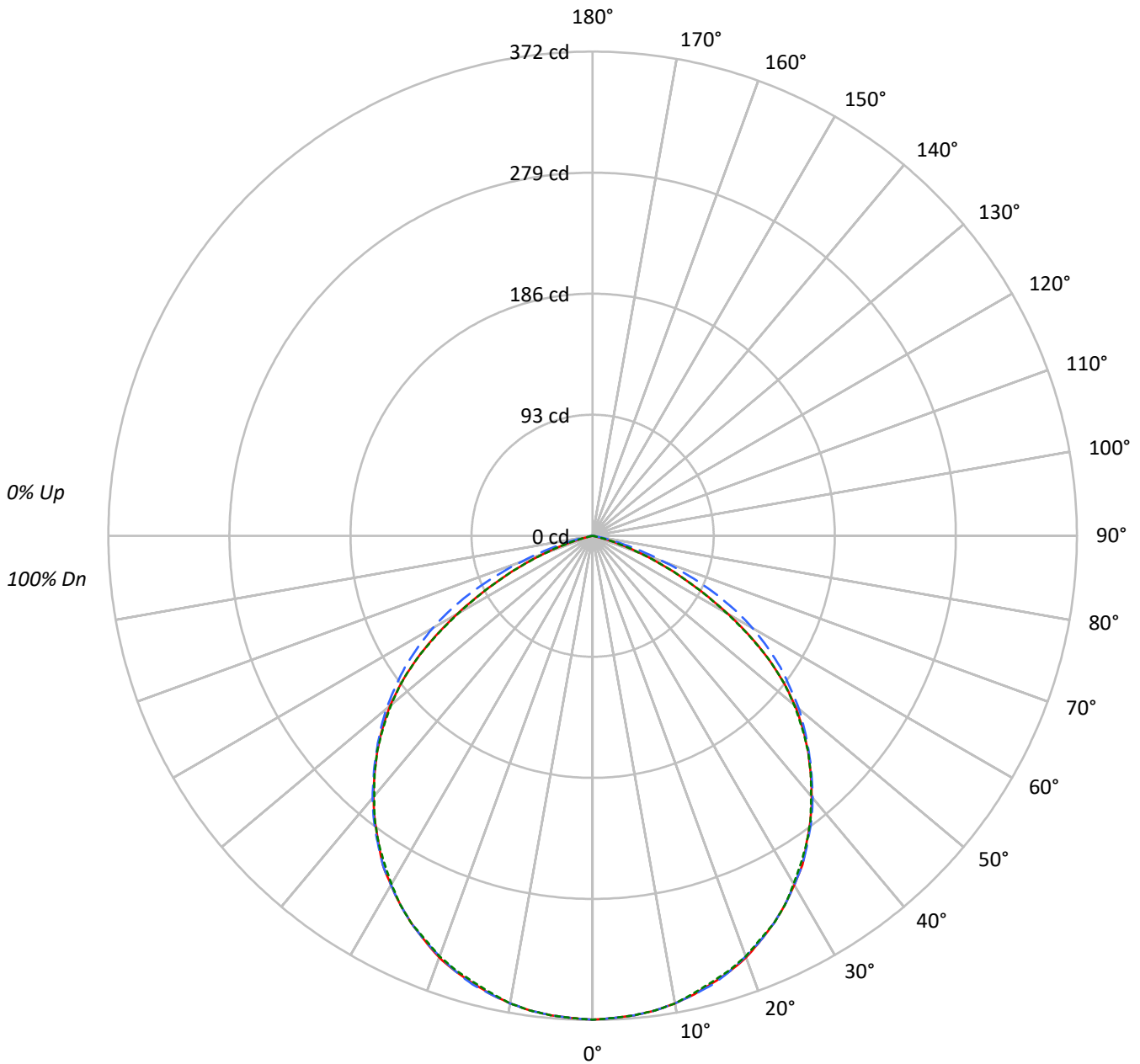
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	16008	16008	16008
5°	15983	15983	15983
10°	15949	15949	15949
15°	15860	15904	15815
20°	15798	15753	15753
25°	15620	15620	15620
30°	15402	15402	15352
35°	15080	15132	15080
40°	14720	14776	14664
45°	14242	14303	14242
50°	13591	13859	13524
55°	12378	13204	12378
60°	10325	12219	10239
65°	7743	10381	7743
70°	4910	7301	4784
75°	1664	3660	1664
80°	0	496	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	3.9
10°-20°	100.4	11.1
20°-30°	151.2	16.7
30°-40°	179.8	19.9
40°-50°	180.7	20.0
50°-60°	151.1	16.7
60°-70°	86.9	9.6
70°-80°	19.6	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°	286.8	31.7
0°-40°	466.6	51.6
0°-60°	798.4	88.2
0°-90°	905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	370	370	370	370	370	35
15°	356	357	357	356	355	100
25°	329	329	329	328	329	151
35°	287	288	288	287	287	180
45°	234	235	235	234	234	180
55°	165	170	176	170	165	146
65°	76	86	102	87	76	76
75°	10	15	22	15	10	14
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°	371.8	371.8	371.8	371.8	371.8
2.5°	370.8	371.8	370.8	371.8	370.8
5°	369.8	369.8	369.8	369.8	369.8
7.5°	367.8	367.8	367.8	367.8	367.8
10°	364.8	364.8	364.8	363.8	364.8
12.5°	360.8	360.8	360.8	359.8	359.8
15°	355.8	356.8	356.8	355.8	354.8
17.5°	350.8	350.8	350.8	349.8	349.8
20°	344.8	343.8	343.8	343.8	343.8
22.5°	336.8	336.8	336.8	335.8	335.8
25°	328.8	328.8	328.8	327.8	328.8
27.5°	319.8	318.8	319.8	318.8	319.8
30°	309.8	309.8	309.8	309.8	308.8
32.5°	299.9	299.9	299.9	298.9	297.9
35°	286.9	287.9	287.9	286.9	286.9
37.5°	274.9	275.9	275.9	274.9	274.9
40°	261.9	262.9	262.9	262.9	260.9
42.5°	247.9	248.9	248.9	248.9	247.9
45°	233.9	234.9	234.9	233.9	233.9
47.5°	218.9	219.9	220.9	219.9	217.9
50°	202.9	204.9	206.9	204.9	201.9
52.5°	184.9	188.9	190.9	188.9	184.9
55°	164.9	169.9	175.9	169.9	164.9
57.5°	142.9	150.9	158.9	149.9	141.9
60°	119.9	129.9	141.9	128.9	118.9
62.5°	97.0	107.9	122.9	107.9	97.0
65°	76.0	86.0	101.9	87.0	76.0
67.5°	56.0	66.0	80.0	66.0	56.0
70°	39.0	47.0	58.0	47.0	38.0
72.5°	23.0	30.0	39.0	30.0	22.0
75°	10.0	15.0	22.0	15.0	10.0
77.5°	2.0	4.0	9.0	5.0	2.0
80°	0.0	0.0	2.0	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)