

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: P274482

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274482
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: LD6B10DE010W2N2765 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: 999.7 lumens
Efficiency: N/A
Efficacy: 71.4 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

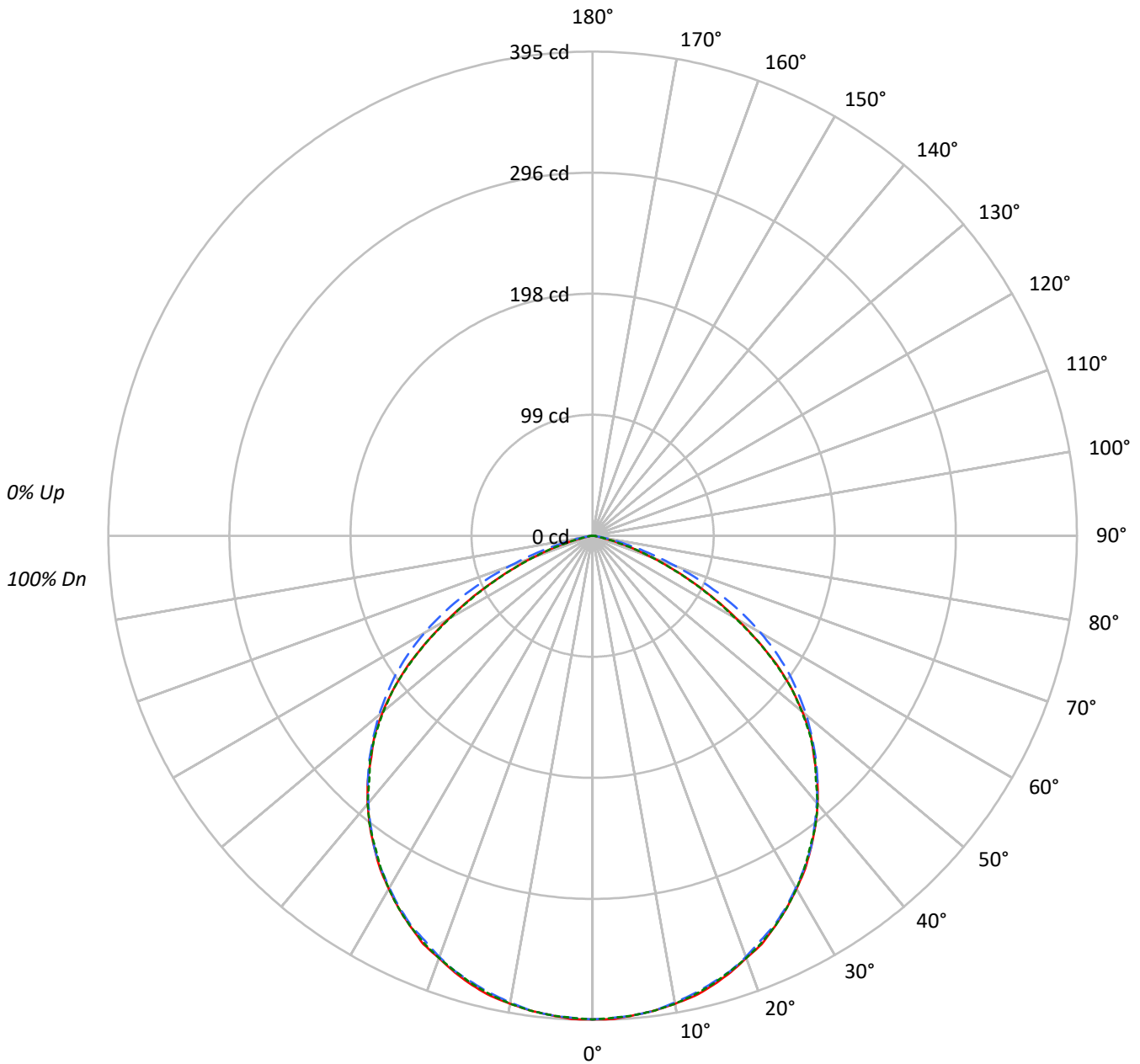
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	66	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°	20219	20219	20219
5°	20194	20194	20194
10°	20167	20115	20167
15°	20137	20031	20084
20°	19990	19936	19990
25°	19878	19822	19878
30°	19673	19614	19673
35°	19422	19422	19360
40°	19097	19030	19097
45°	18507	18652	18580
50°	17808	18127	17729
55°	16375	17447	16286
60°	13958	16223	13753
65°	11045	14210	10924
70°	7656	10652	7656
75°	3960	6553	3960
80°	1475	2361	1475
85°	1176	1176	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	3.7
10°-20°	106.8	10.7
20°-30°	161.7	16.2
30°-40°	193.9	19.4
40°-50°	197.7	19.8
50°-60°	167.8	16.8
60°-70°	101.6	10.2
70°-80°	30.2	3.0
80°-90°	2.7	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°	305.8	30.6
0°-40°	499.7	50.0
0°-60°	865.1	86.5
0°-90°	999.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	999.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	393	393	393	393	393	37
15°	380	379	378	379	379	107
25°	352	352	351	351	352	162
35°	310	310	310	310	310	194
45°	255	256	257	257	256	197
55°	183	189	195	189	182	162
65°	91	102	117	101	90	91
75°	20	26	33	25	20	24
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	394.6	394.6	394.6	394.6	394.6
2.5°	394.6	393.6	393.6	394.6	393.6
5°	392.6	392.6	392.6	392.6	392.6
7.5°	390.6	389.6	390.6	390.6	390.6
10°	387.6	387.6	386.6	387.6	387.6
12.5°	384.6	382.6	382.6	383.6	383.6
15°	379.6	378.6	377.6	378.6	378.6
17.5°	373.6	372.6	372.6	373.6	372.6
20°	366.6	365.6	365.6	366.6	366.6
22.5°	360.6	358.6	357.6	359.6	359.6
25°	351.6	351.6	350.6	350.6	351.6
27.5°	342.6	341.6	341.6	341.6	342.6
30°	332.5	331.5	331.5	332.5	332.5
32.5°	322.5	321.5	321.5	322.5	321.5
35°	310.5	310.5	310.5	310.5	309.5
37.5°	298.5	297.5	297.5	297.5	298.5
40°	285.5	284.5	284.5	285.5	285.5
42.5°	271.4	270.4	271.4	271.4	269.4
45°	255.4	256.4	257.4	257.4	256.4
47.5°	241.4	241.4	242.4	241.4	240.4
50°	223.4	224.4	227.4	225.4	222.4
52.5°	204.3	207.3	211.3	208.3	204.3
55°	183.3	189.3	195.3	189.3	182.3
57.5°	159.3	168.3	177.3	168.3	159.3
60°	136.2	146.2	158.3	146.2	134.2
62.5°	113.2	123.2	138.2	123.2	112.2
65°	91.1	102.2	117.2	101.2	90.1
67.5°	70.1	80.1	94.2	80.1	69.1
70°	51.1	60.1	71.1	60.1	51.1
72.5°	35.1	41.1	51.1	42.1	34.1
75°	20.0	26.0	33.1	25.0	20.0
77.5°	10.0	13.0	18.0	13.0	10.0
80°	5.0	6.0	8.0	6.0	5.0
82.5°	3.0	4.0	4.0	4.0	3.0
85°	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)