

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: P274472

Luminaire Tested: **LD6B20DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274472
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: LD6B20DE010W2N2765 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: 1625.4 lumens
Efficiency: N/A
Efficacy: 58.0 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

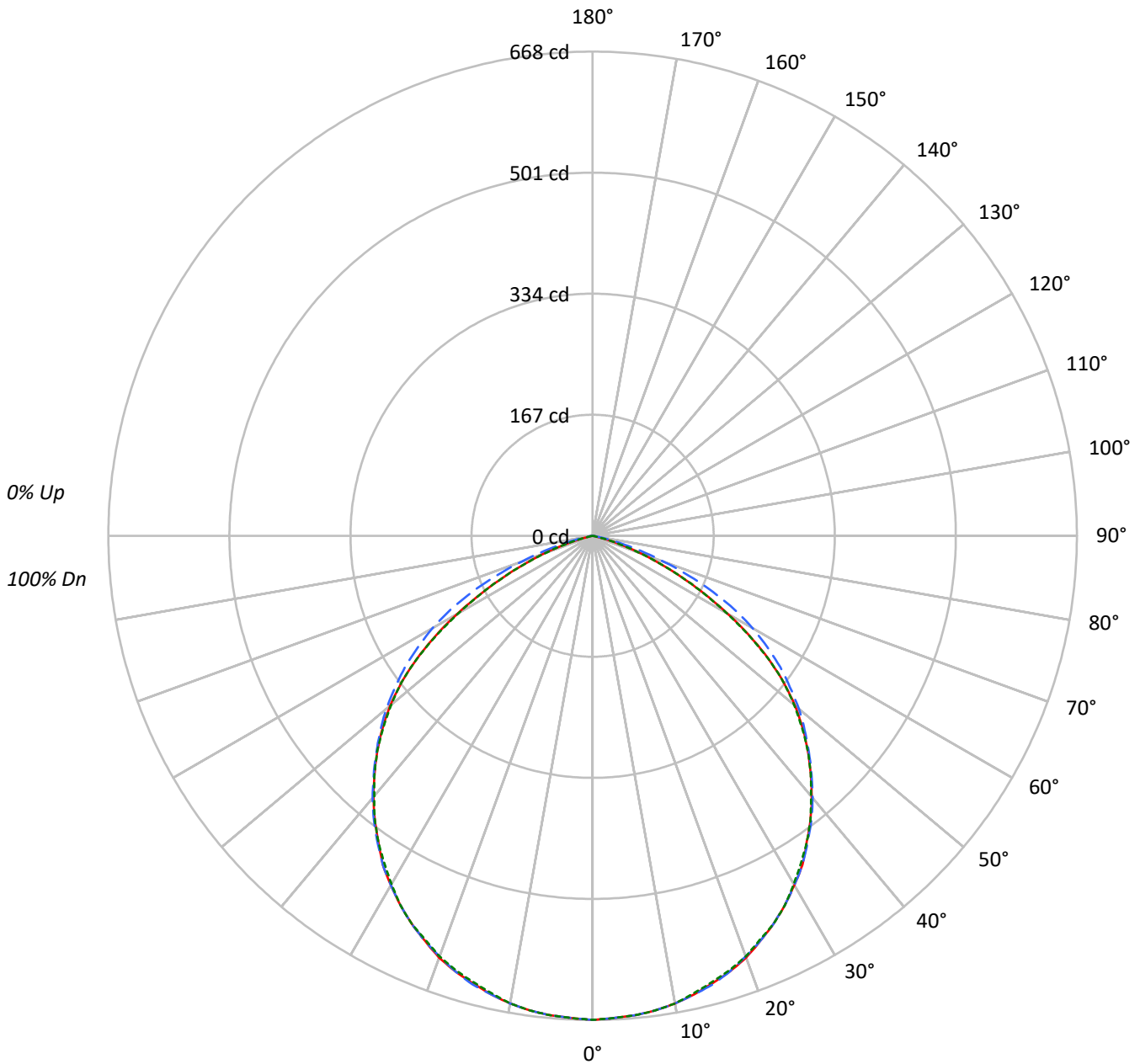
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	28753	28753	28753
5°	28707	28707	28707
10°	28645	28645	28645
15°	28483	28563	28403
20°	28376	28293	28293
25°	28057	28057	28057
30°	27667	27667	27578
35°	27080	27174	27080
40°	26433	26534	26332
45°	25574	25683	25574
50°	24409	24891	24288
55°	22234	23713	22234
60°	18548	21950	18393
65°	13896	18654	13896
70°	8812	13105	8585
75°	2994	6571	2994
80°	0	893	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.9
10°-20°	180.4	11.1
20°-30°	271.7	16.7
30°-40°	322.8	19.9
40°-50°	324.5	20.0
50°-60°	271.4	16.7
60°-70°	156.1	9.6
70°-80°	35.3	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°	515.2	31.7
0°-40°	838.0	51.6
0°-60°	1433.8	88.2
0°-90°	1625.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	664	664	664	664	664	63
15°	639	641	641	639	637	181
25°	591	591	591	589	591	272
35°	515	517	517	515	515	323
45°	420	422	422	420	420	323
55°	296	305	316	305	296	262
65°	136	154	183	156	136	136
75°	18	27	40	27	18	26
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°	667.8	667.8	667.8	667.8	667.8
2.5°	666.0	667.8	666.0	667.8	666.0
5°	664.2	664.2	664.2	664.2	664.2
7.5°	660.6	660.6	660.6	660.6	660.6
10°	655.2	655.2	655.2	653.4	655.2
12.5°	648.0	648.0	648.0	646.2	646.2
15°	639.0	640.8	640.8	639.0	637.2
17.5°	630.1	630.1	630.1	628.3	628.3
20°	619.3	617.5	617.5	617.5	617.5
22.5°	604.9	604.9	604.9	603.1	603.1
25°	590.6	590.6	590.6	588.8	590.6
27.5°	574.4	572.6	574.4	572.6	574.4
30°	556.5	556.5	556.5	556.5	554.7
32.5°	538.5	538.5	538.5	536.7	534.9
35°	515.2	517.0	517.0	515.2	515.2
37.5°	493.6	495.4	495.4	493.6	493.6
40°	470.3	472.1	472.1	472.1	468.5
42.5°	445.2	447.0	447.0	447.0	445.2
45°	420.0	421.8	421.8	420.0	420.0
47.5°	393.1	394.9	396.7	394.9	391.3
50°	364.4	368.0	371.6	368.0	362.6
52.5°	332.1	339.3	342.9	339.3	332.1
55°	296.2	305.2	315.9	305.2	296.2
57.5°	256.7	271.1	285.4	269.3	254.9
60°	215.4	233.4	254.9	231.6	213.6
62.5°	174.1	193.9	220.8	193.9	174.1
65°	136.4	154.4	183.1	156.2	136.4
67.5°	100.5	118.5	143.6	118.5	100.5
70°	70.0	84.4	104.1	84.4	68.2
72.5°	41.3	53.9	70.0	53.9	39.5
75°	18.0	26.9	39.5	26.9	18.0
77.5°	3.6	7.2	16.2	9.0	3.6
80°	0.0	0.0	3.6	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)