

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: P274361

Luminaire Tested: **LD4B10DE010W2N2765 EU4B1020W2N902765 4LBCSSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBCSSQ1MB
Description: PORTFOLIO 4" 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: 801.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

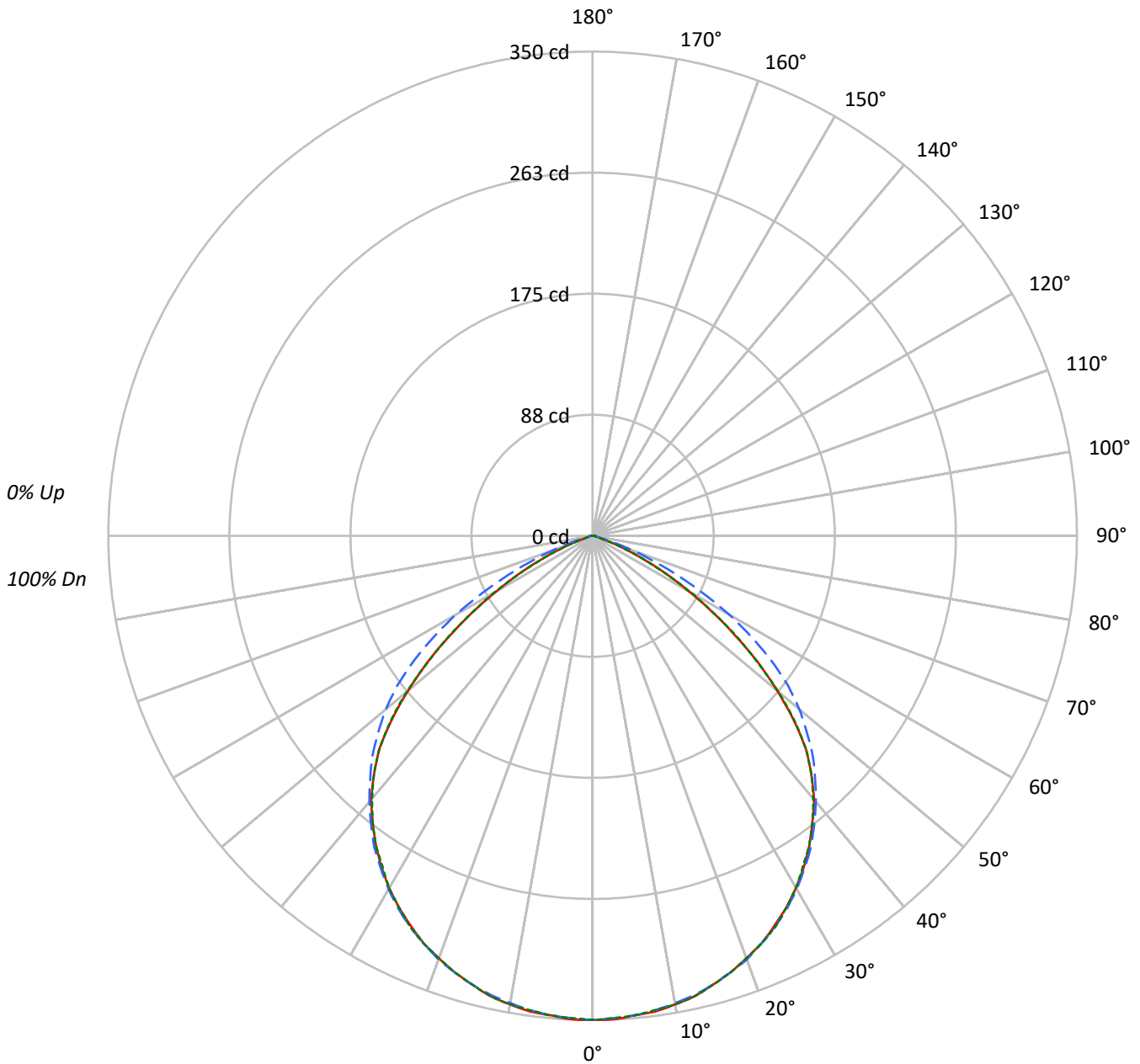
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58					58			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51					51			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26790	26790	26790
5°	26739	26739	26739
10°	26737	26659	26737
15°	26626	26626	26626
20°	26473	26555	26473
25°	26266	26350	26350
30°	25985	26073	25985
35°	25510	25697	25510
40°	24880	25080	24780
45°	23598	24356	23598
50°	20720	23221	20839
55°	16815	21085	16948
60°	12247	17452	12553
65°	7607	12316	7607
70°	3133	6714	3133
75°	591	2070	591
80°	882	882	882
85°	1756	1756	1756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	4.1
10°-20°	94.8	11.8
20°-30°	143.5	17.9
30°-40°	170.9	21.3
40°-50°	169.5	21.2
50°-60°	125.5	15.7
60°-70°	54.6	6.8
70°-80°	7.2	0.9
80°-90°	1.9	0.2
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°	271.4	33.9
0°-40°	442.3	55.2
0°-60°	737.3	92.1
0°-90°	801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	348	349	348	348	348	33
15°	336	336	336	335	336	95
25°	311	311	312	312	312	143
35°	273	274	275	274	273	171
45°	218	222	225	221	218	166
55°	126	140	158	141	127	113
65°	42	52	68	53	42	43
75°	2	3	7	3	2	4
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°	350	350	350	350	350
2.5°	350	349	349	349	349
5°	348	349	348	348	348
7.5°	347	347	346	346	346
10°	344	344	343	343	344
12.5°	341	340	340	340	341
15°	336	336	336	335	336
17.5°	331	331	331	331	331
20°	325	325	326	325	325
22.5°	319	319	319	319	319
25°	311	311	312	312	312
27.5°	303	303	304	303	303
30°	294	294	295	294	294
32.5°	284	284	285	283	283
35°	273	274	275	274	273
37.5°	261	262	263	261	261
40°	249	250	251	249	248
42.5°	234	237	238	236	234
45°	218	222	225	221	218
47.5°	197	204	210	205	198
50°	174	185	195	185	175
52.5°	151	162	178	163	150
55°	126	140	158	141	127
57.5°	103	116	136	117	103
60°	80	94	114	95	82
62.5°	61	72	90	72	60
65°	42	52	68	53	42
67.5°	26	35	47	35	27
70°	14	20	30	21	14
72.5°	5	9	16	9	5
75°	2	3	7	3	2
77.5°	2	2	3	2	2
80°	2	2	2	2	2
82.5°	2	2	2	2	2
85°	2	2	2	2	2
87.5°	2	2	2	2	2
90°	0	0	0	0	0



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)