

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: P274408

Luminaire Tested: **LD6B20DE010W2N2050 EU6B1020W2N902050 6LBW0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35124)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBW0MW
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH MATTE WHITE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1383.3 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

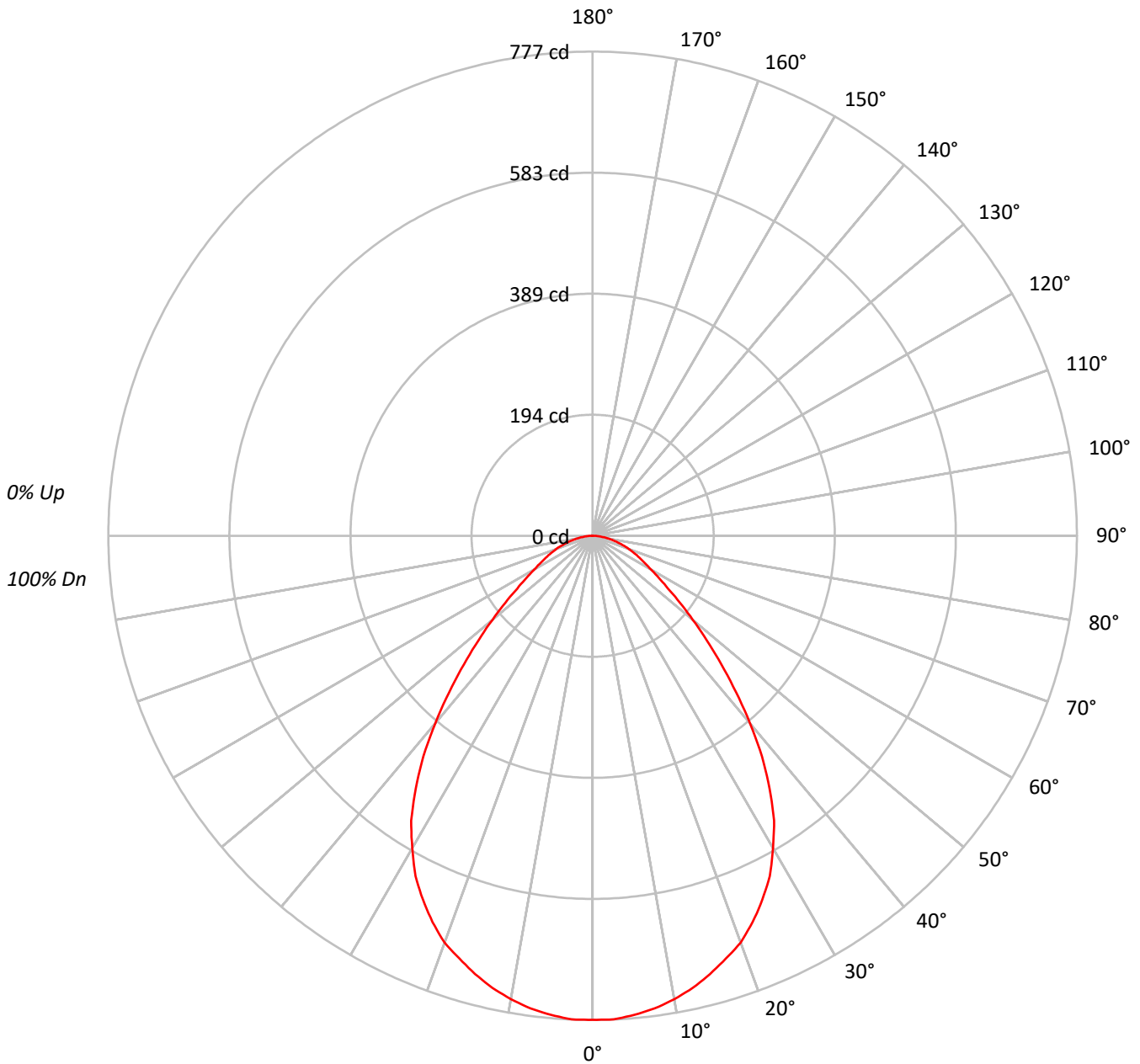
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54		
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44		
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50679
5°	50545
10°	50017
15°	49177
20°	48224
25°	46380
30°	43603
35°	39416
40°	33436
45°	26932
50°	21284
55°	16789
60°	14014
65°	12689
70°	11846
75°	10562
80°	9468
85°	7560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	5.3
10°-20°	205.2	14.8
20°-30°	295.6	21.4
30°-40°	306.9	22.2
40°-50°	226.9	16.4
50°-60°	135.5	9.8
60°-70°	82.4	6.0
70°-80°	45.1	3.3
80°-90°	12.6	0.9
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°	573.9	41.5
0°-40°	880.8	63.7
0°-60°	1243.2	89.9
0°-90°	1383.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1383.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	777	
5°	772	73
15°	728	205
25°	644	296
35°	495	307
45°	292	227
55°	148	136
65°	82	82
75°	42	45
85°	10	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	776.8
2.5°	776.8
5°	771.8
7.5°	765.1
10°	755.0
12.5°	743.2
15°	728.1
17.5°	711.4
20°	694.6
22.5°	671.1
25°	644.3
27.5°	615.7
30°	578.8
32.5°	541.9
35°	494.9
37.5°	446.3
40°	392.6
42.5°	340.6
45°	291.9
47.5°	248.3
50°	209.7
52.5°	176.2
55°	147.6
57.5°	125.8
60°	107.4
62.5°	94.0
65°	82.2
67.5°	72.1
70°	62.1
72.5°	52.0
75°	41.9
77.5°	33.6
80°	25.2
82.5°	18.5
85°	10.1
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)