

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: P274487

Luminaire Tested: **LD6B20DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274487
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: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1567.4 lumens
Efficiency: N/A
Efficacy: 56.0 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

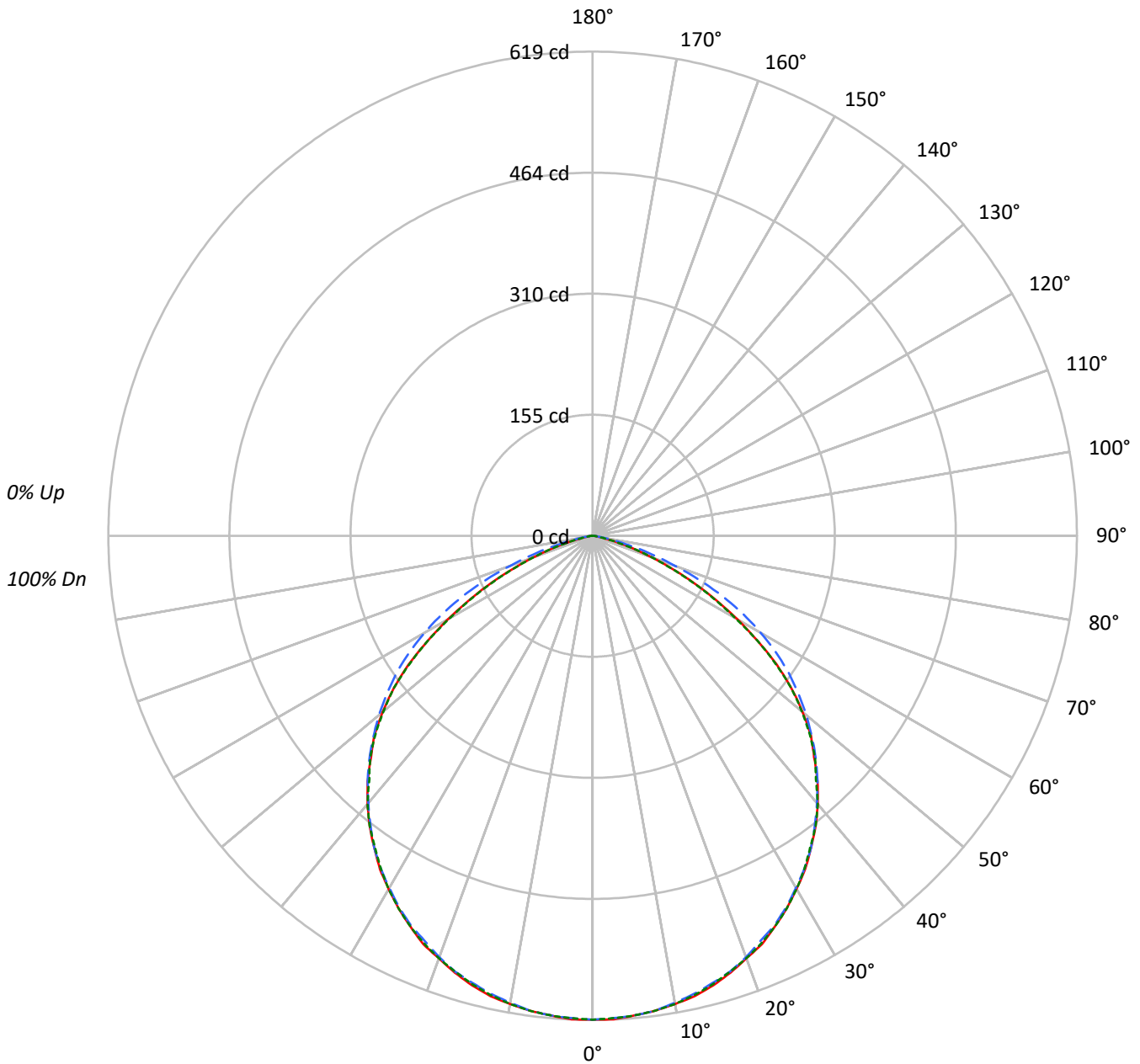
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274487

CATALOG NUMBER: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P274487

CATALOG NUMBER: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW

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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87					87			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	63					63			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31702	31702	31702
5°	31664	31664	31664
10°	31619	31541	31619
15°	31574	31404	31489
20°	31343	31256	31343
25°	31163	31073	31163
30°	30850	30755	30850
35°	30450	30450	30350
40°	29939	29832	29939
45°	29015	29247	29131
50°	27916	28418	27789
55°	25675	27354	25532
60°	21890	25425	21562
65°	17326	22272	17132
70°	12000	16704	12000
75°	6216	10255	6216
80°	2331	3718	2331
85°	1823	1823	1823



TEST NUMBER: P274487

CATALOG NUMBER: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.7
10°-20°	167.5	10.7
20°-30°	253.4	16.2
30°-40°	304.0	19.4
40°-50°	309.9	19.8
50°-60°	263.0	16.8
60°-70°	159.3	10.2
70°-80°	47.4	3.0
80°-90°	4.2	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°	479.4	30.6
0°-40°	783.4	50.0
0°-60°	1356.4	86.5
0°-90°	1567.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	616	616	616	616	616	59
15°	595	594	592	594	594	168
25°	551	551	550	550	551	254
35°	487	487	487	487	485	305
45°	400	402	404	404	402	309
55°	287	297	306	297	286	254
65°	143	160	184	159	141	142
75°	31	41	52	39	31	38
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



TEST NUMBER: P274487

CATALOG NUMBER: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	618.7	618.7	618.7	618.7	618.7
2.5°	618.7	617.2	617.2	618.7	617.2
5°	615.6	615.6	615.6	615.6	615.6
7.5°	612.4	610.9	612.4	612.4	612.4
10°	607.7	607.7	606.2	607.7	607.7
12.5°	603.0	599.9	599.9	601.4	601.4
15°	595.2	593.6	592.0	593.6	593.6
17.5°	585.7	584.2	584.2	585.7	584.2
20°	574.8	573.2	573.2	574.8	574.8
22.5°	565.3	562.2	560.6	563.8	563.8
25°	551.2	551.2	549.6	549.6	551.2
27.5°	537.1	535.5	535.5	535.5	537.1
30°	521.4	519.8	519.8	521.4	521.4
32.5°	505.7	504.1	504.1	505.7	504.1
35°	486.8	486.8	486.8	486.8	485.2
37.5°	468.0	466.4	466.4	466.4	468.0
40°	447.6	446.0	446.0	447.6	447.6
42.5°	425.6	424.0	425.6	425.6	422.4
45°	400.4	402.0	403.6	403.6	402.0
47.5°	378.5	378.5	380.0	378.5	376.9
50°	350.2	351.8	356.5	353.3	348.6
52.5°	320.4	325.1	331.3	326.6	320.4
55°	287.4	296.8	306.2	296.8	285.8
57.5°	249.7	263.8	278.0	263.8	249.7
60°	213.6	229.3	248.1	229.3	210.4
62.5°	177.5	193.2	216.7	193.2	175.9
65°	142.9	160.2	183.7	158.6	141.3
67.5°	109.9	125.6	147.6	125.6	108.4
70°	80.1	94.2	111.5	94.2	80.1
72.5°	55.0	64.4	80.1	66.0	53.4
75°	31.4	40.8	51.8	39.3	31.4
77.5°	15.7	20.4	28.3	20.4	15.7
80°	7.9	9.4	12.6	9.4	7.9
82.5°	4.7	6.3	6.3	6.3	4.7
85°	3.1	3.1	3.1	3.1	3.1
87.5°	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)