

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: P204989

Luminaire Tested: **LD6B20D010 EU6B10208030 6LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10208030 6LBCSMMS1
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W
DL3-21.8 6 W DLE-22.46 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

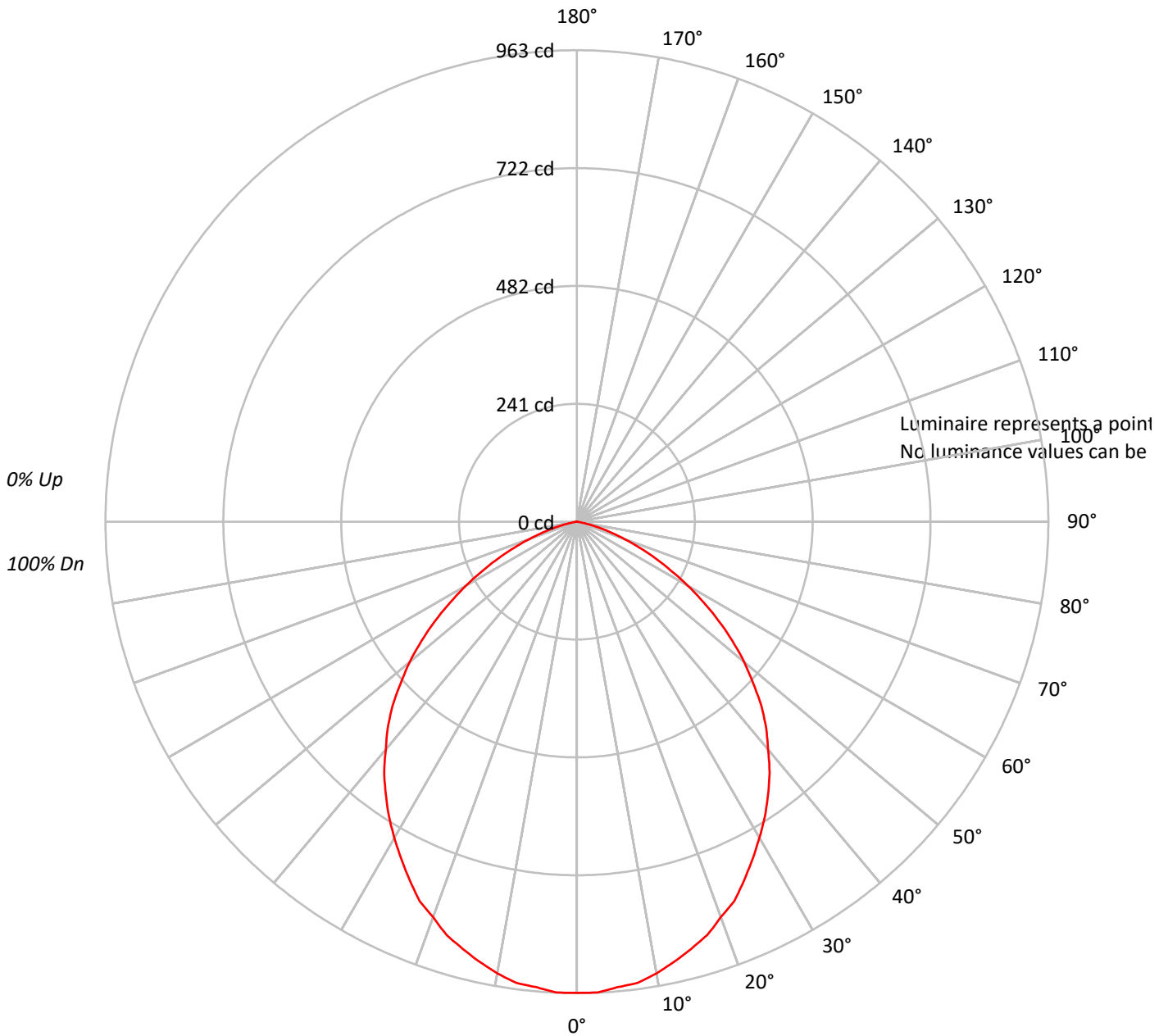
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P204989

CATALOG NUMBER: LD6B20D010 EU6B10208030 6LBCSMMS1

Luminous Intensity Polar Plot





TEST NUMBER: P204989

CATALOG NUMBER: LD6B20D010 EU6B10208030 6LBCSMMS1

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	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	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76			76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65			65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40			40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36			36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32			32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29			29

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P204989

CATALOG NUMBER: LD6B20D010 EU6B10208030 6LBCSMMS1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	4.3
10°-20°	254.5	12.1
20°-30°	371.8	17.7
30°-40°	425.2	20.3
40°-50°	408.7	19.5
50°-60°	315.6	15.1
60°-70°	176.1	8.4
70°-80°	51.2	2.4
80°-90°	2.2	0.1
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°	717.0	34.2
0°-40°	1142.3	54.5
0°-60°	1866.6	89.0
0°-90°	2096.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	963	
5°	954	91
15°	903	255
25°	808	372
35°	681	425
45°	533	409
55°	354	316
65°	176	176
75°	45	51
85°	1	2
90°	0	



TEST NUMBER: P204989

CATALOG NUMBER: LD6B20D010 EU6B10208030 6LBCSMMS1

CANDELA DISTRIBUTION (FULL):

	0°
0°	962.6
2.5°	962.6
5°	954.5
7.5°	950.4
10°	936.8
12.5°	920.6
15°	902.9
17.5°	885.3
20°	859.6
22.5°	839.2
25°	808.0
27.5°	776.9
30°	745.7
32.5°	714.5
35°	680.6
37.5°	646.7
40°	607.4
42.5°	572.1
45°	532.8
47.5°	488.1
50°	446.1
52.5°	400.0
55°	353.9
57.5°	306.4
60°	261.7
62.5°	216.9
65°	176.3
67.5°	138.3
70°	103.0
72.5°	71.9
75°	44.7
77.5°	23.0
80°	8.1
82.5°	2.7
85°	1.4
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)