

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: P203859

Luminaire Tested: **LD6B20D010 EU6B10209027 6LBNGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P203859
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 EU6B10209027 6LBNGPH1
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH GRAPHITE HAZE 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: 841.7 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

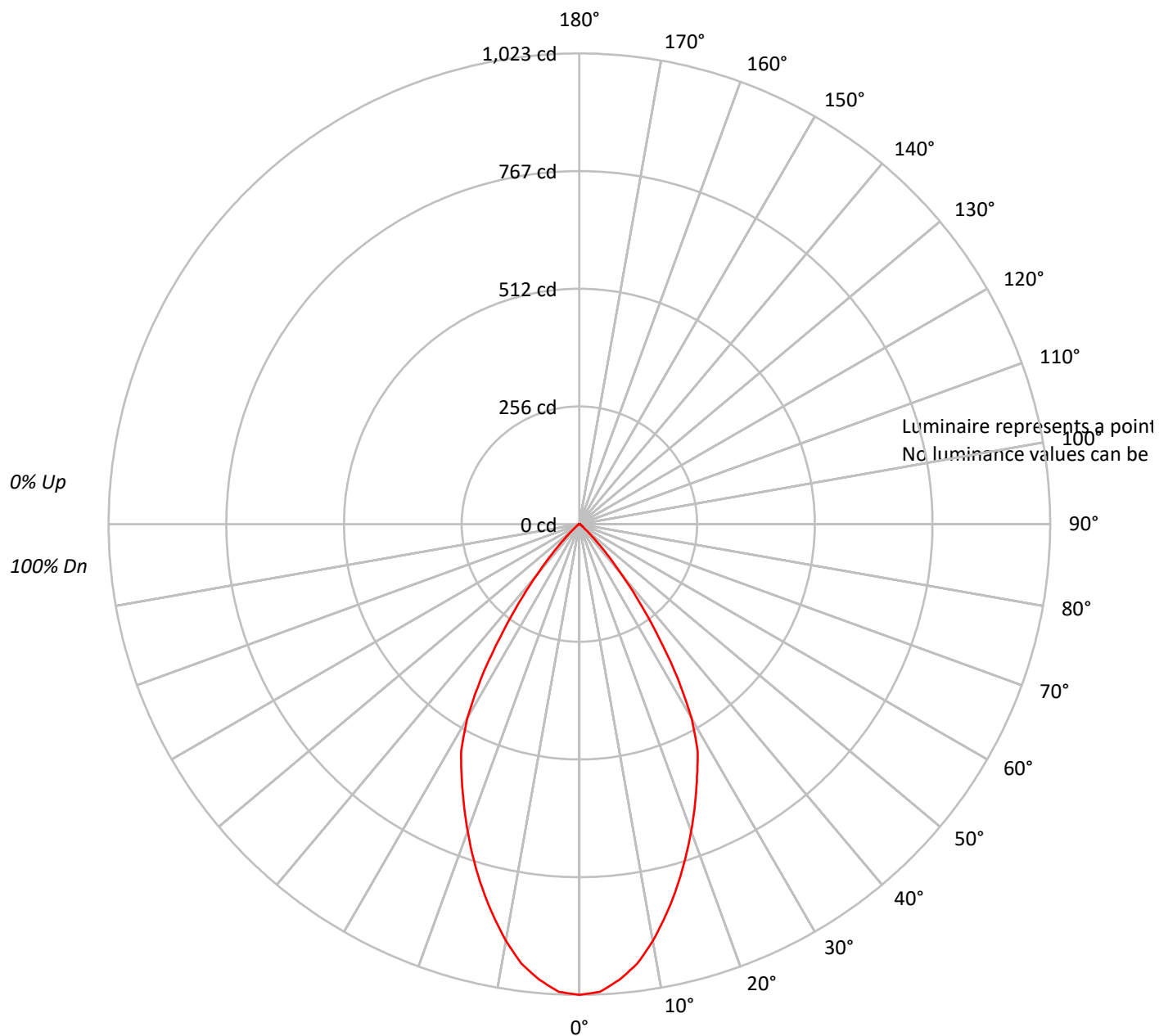
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P203859

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBNGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P203859

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBNGPH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	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
1	114	111	108	106	111	109	106	104		105	103	101			101	100	98			97
2	108	103	99	96	106	101	98	95		98	95	93			95	93	91			92
3	103	96	91	87	101	95	90	87		92	88	85			90	87	84			88
4	97	90	84	80	96	89	84	80		87	82	79			85	81	78			83
5	93	84	78	74	91	83	78	74		82	77	73			80	76	73			78
6	88	79	73	69	86	78	73	69		77	72	68			75	71	68			74
7	84	74	68	64	82	74	68	64		72	67	64			71	67	63			70
8	80	70	64	60	78	69	64	60		68	63	60			67	63	59			66
9	76	66	60	56	75	66	60	56		65	60	56			64	59	56			63
10	72	63	57	53	71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P203859

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBNGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	11.0
10°-20°	228.4	27.1
20°-30°	276.8	32.9
30°-40°	188.6	22.4
40°-50°	44.9	5.3
50°-60°	7.0	0.8
60°-70°	2.6	0.3
70°-80°	0.7	0.1
80°-90°	0.0	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°	597.8	71.0
0°-40°	786.4	93.4
0°-60°	838.4	99.6
0°-90°	841.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	841.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1023	
5°	994	93
15°	818	228
25°	605	277
35°	301	189
45°	48	45
55°	8	7
65°	2	3
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P203859

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBNGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1023.1
2.5°	1017.4
5°	994.3
7.5°	963.6
10°	919.5
12.5°	869.6
15°	817.7
17.5°	764.0
20°	710.2
22.5°	656.5
25°	604.7
27.5°	556.7
30°	487.6
32.5°	397.4
35°	301.4
37.5°	215.0
40°	142.0
42.5°	88.3
45°	48.0
47.5°	25.0
50°	13.4
52.5°	9.6
55°	7.7
57.5°	5.8
60°	3.8
62.5°	3.8
65°	1.9
67.5°	1.9
70°	1.9
72.5°	1.9
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)