

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: P204892

Luminaire Tested: **LD6B20D010 EU6B10209030 6LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204892
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 EU6B10209030 6LBCSMB1
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 1615.6 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

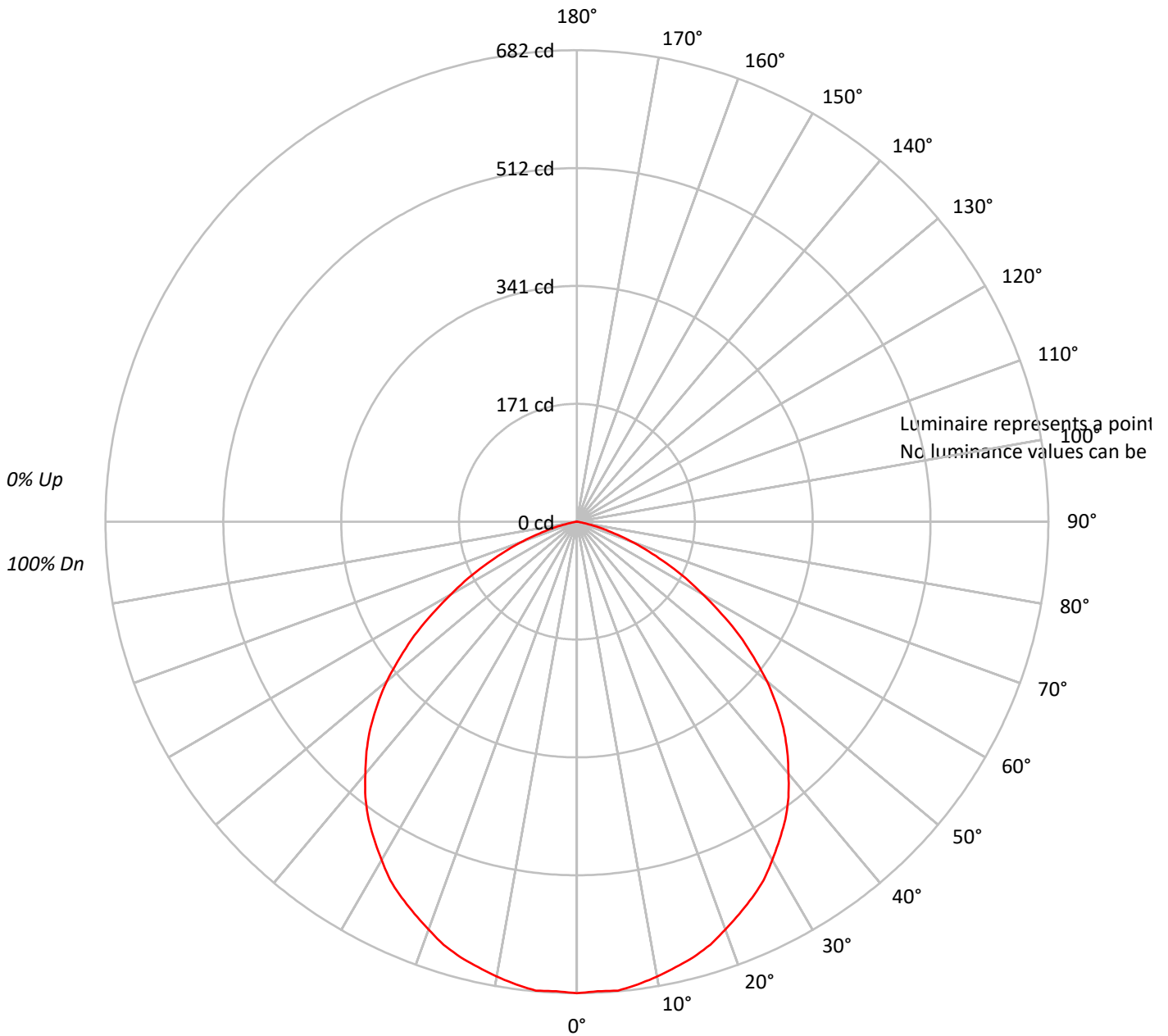
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P204892

CATALOG NUMBER: LD6B20D010 EU6B10209030 6LBCSMB1

Luminous Intensity Polar Plot





TEST NUMBER: P204892

CATALOG NUMBER: LD6B20D010 EU6B10209030 6LBCSMB1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39																			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35																			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P204892

CATALOG NUMBER: LD6B20D010 EU6B10209030 6LBCSMB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	4.0
10°-20°	183.8	11.4
20°-30°	276.4	17.1
30°-40°	327.9	20.3
40°-50°	324.5	20.1
50°-60°	254.9	15.8
60°-70°	142.9	8.8
70°-80°	40.1	2.5
80°-90°	0.6	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°	524.7	32.5
0°-40°	852.6	52.8
0°-60°	1431.9	88.6
0°-90°	1615.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	682	
5°	681	65
15°	652	184
25°	600	276
35°	526	328
45°	423	324
55°	287	255
65°	142	143
75°	35	40
85°	0	1
90°	0	



TEST NUMBER: P204892

CATALOG NUMBER: LD6B20D010 EU6B10209030 6LBCSMB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	682.2
2.5°	679.9
5°	681.0
7.5°	675.2
10°	668.3
12.5°	660.2
15°	652.1
17.5°	641.7
20°	627.8
22.5°	613.9
25°	600.0
27.5°	584.9
30°	565.2
32.5°	545.5
35°	525.8
37.5°	502.7
40°	476.0
42.5°	450.5
45°	422.7
47.5°	391.5
50°	359.0
52.5°	322.0
55°	287.2
57.5°	247.9
60°	210.8
62.5°	177.2
65°	142.5
67.5°	112.3
70°	83.4
72.5°	56.8
75°	34.7
77.5°	17.4
80°	4.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)