

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: P204994

Luminaire Tested: **LD6B20D010 EU6B10209027 6LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204994
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 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: 1721.2 lumens
Efficiency: N/A
Efficacy: 82.8 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

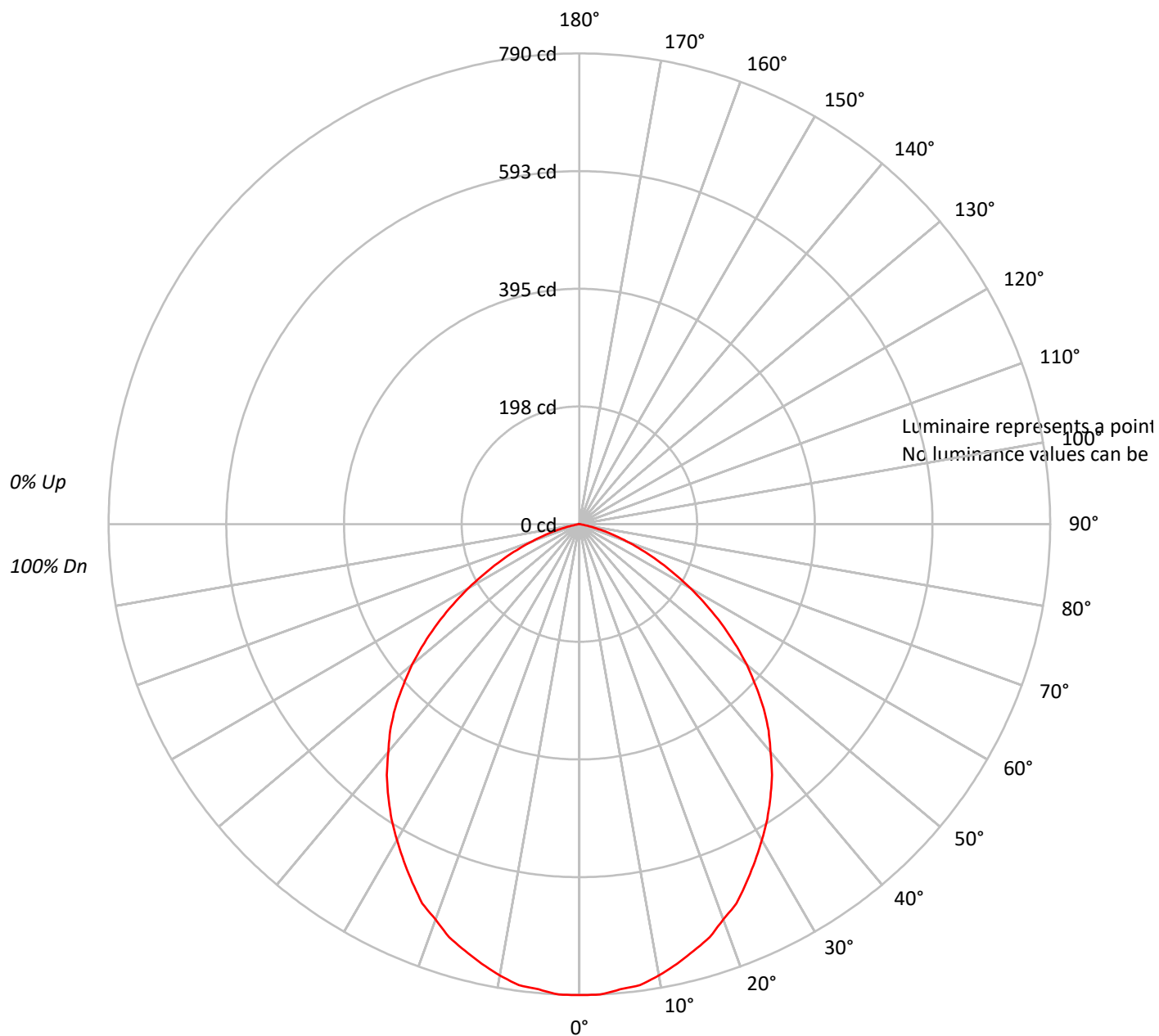
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P204994

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBCSMMS1

Luminous Intensity Polar Plot





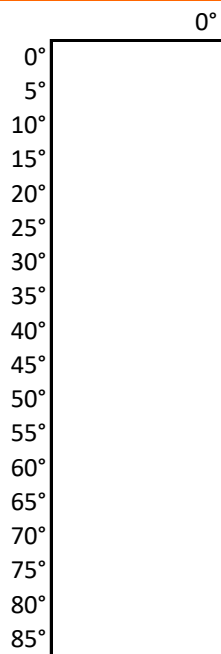
TEST NUMBER: P204994

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBCSMMS1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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
1	111	107	103	100	108	105	101	98		100	98	95		97	94	92		93	91	90
2	102	95	89	84	100	93	88	83		90	85	81		86	83	79		83	80	78
3	94	85	77	72	92	83	76	71		80	74	70		77	73	69		75	71	67
4	87	76	68	62	84	74	67	61		72	66	61		70	64	60		68	63	59
5	80	68	60	54	78	67	59	54		65	58	53		63	57	53		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	42	67	56	48	42		54	47	42		53	46	42		51	46	41
8	64	52	44	38	63	51	43	38		50	43	38		48	42	38		47	42	37
9	60	48	40	35	59	47	40	34		46	39	34		45	39	34		44	38	34
10	57	44	36	31	55	43	36	31		43	36	31		42	35	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P204994

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBCSMMS1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	4.3
10°-20°	209.0	12.1
20°-30°	305.3	17.7
30°-40°	349.2	20.3
40°-50°	335.6	19.5
50°-60°	259.1	15.1
60°-70°	144.6	8.4
70°-80°	42.1	2.4
80°-90°	1.8	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°	588.8	34.2
0°-40°	938.0	54.5
0°-60°	1532.7	89.0
0°-90°	1721.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	790	
5°	784	74
15°	742	209
25°	664	305
35°	559	349
45°	438	336
55°	291	259
65°	145	145
75°	37	42
85°	1	2
90°	0	



TEST NUMBER: P204994

CATALOG NUMBER: LD6B20D010 EU6B10209027 6LBCSMMS1

CANDELA DISTRIBUTION (FULL):

	0°
0°	790.4
2.5°	790.4
5°	783.8
7.5°	780.4
10°	769.3
12.5°	755.9
15°	741.5
17.5°	727.0
20°	705.8
22.5°	689.1
25°	663.5
27.5°	637.9
30°	612.3
32.5°	586.7
35°	558.9
37.5°	531.0
40°	498.8
42.5°	469.8
45°	437.5
47.5°	400.8
50°	366.3
52.5°	328.4
55°	290.6
57.5°	251.6
60°	214.9
62.5°	178.1
65°	144.7
67.5°	113.6
70°	84.6
72.5°	59.0
75°	36.7
77.5°	18.9
80°	6.7
82.5°	2.2
85°	1.1
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)