

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: P135465

Luminaire Tested: **LD6A20D010TE ERM6A20830 6LM1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23371)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A20D010TE ERM6A20830 6LM1H
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 3000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2146.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.9
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

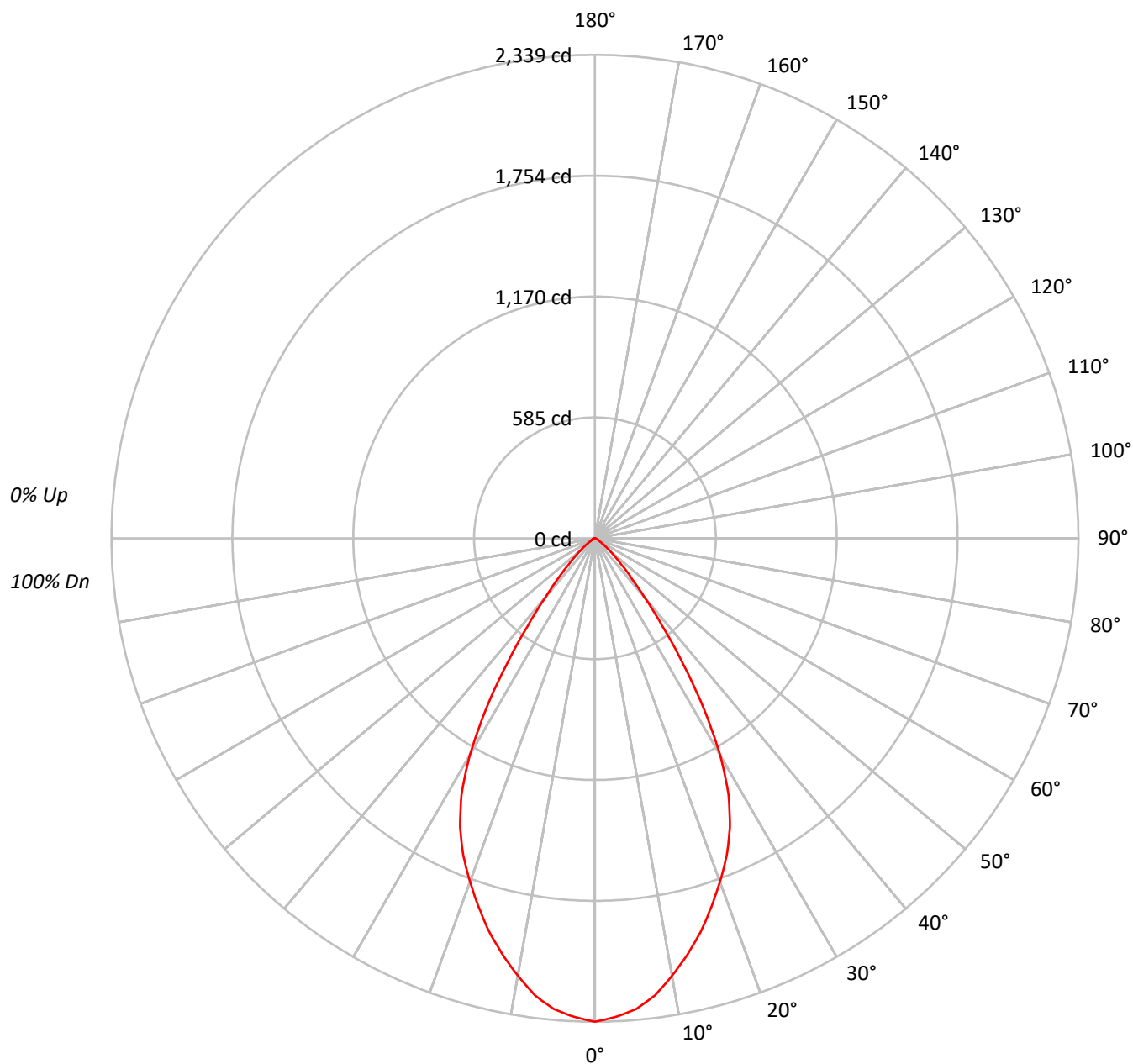
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106		111	108	106	104		104	102	101		101	99	98		97	96	95
2	108	103	98	95		105	101	97	94		98	94	92		95	92	90		92	90	88
3	102	95	90	86		100	94	89	85		91	87	84		89	86	83		87	84	81
4	97	89	83	79		95	88	82	78		85	81	77		83	80	76		82	78	76
5	91	83	77	72		90	82	76	72		80	75	72		78	74	71		77	73	70
6	87	78	71	67		85	77	71	67		75	70	66		74	69	66		73	69	65
7	82	73	67	62		81	72	66	62		71	66	62		70	65	61		68	64	61
8	78	68	62	58		77	68	62	58		67	61	58		66	61	57		65	60	57
9	74	64	58	54		73	64	58	54		63	58	54		62	57	54		61	57	54
10	71	61	55	51		70	60	55	51		60	54	51		59	54	51		58	54	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	152617
5°	149775
10°	142365
15°	133254
20°	122762
25°	111181
30°	91251
35°	59327
40°	31818
45°	17124
50°	9419
55°	4607
60°	2792
65°	1837
70°	1354
75°	605
80°	902
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	10.0
10°-20°	551.9	25.7
20°-30°	698.1	32.5
30°-40°	469.3	21.9
40°-50°	154.2	7.2
50°-60°	41.6	1.9
60°-70°	12.9	0.6
70°-80°	3.8	0.2
80°-90°	0.3	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°	1463.9	68.2
0°-40°	1933.2	90.1
0°-60°	2129.0	99.2
0°-90°	2146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2146.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2339	
5°	2287	214
15°	1973	552
25°	1544	698
35°	745	469
45°	186	154
55°	40	42
65°	12	13
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2339.3
2.5°	2317.9
5°	2287.0
7.5°	2229.9
10°	2149.0
12.5°	2063.3
15°	1972.9
17.5°	1870.5
20°	1768.2
22.5°	1663.5
25°	1544.5
27.5°	1399.3
30°	1211.3
32.5°	985.2
35°	744.9
37.5°	533.1
40°	373.6
42.5°	261.8
45°	185.6
47.5°	130.9
50°	92.8
52.5°	61.9
55°	40.5
57.5°	28.6
60°	21.4
62.5°	16.7
65°	11.9
67.5°	9.5
70°	7.1
72.5°	4.8
75°	2.4
77.5°	2.4
80°	2.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)