

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: P136188

Luminaire Tested: **LD6A20D010TE ERW6A20927 6LW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23374)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A20D010TE ERW6A20927 6LW1H
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2041.2 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.09
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

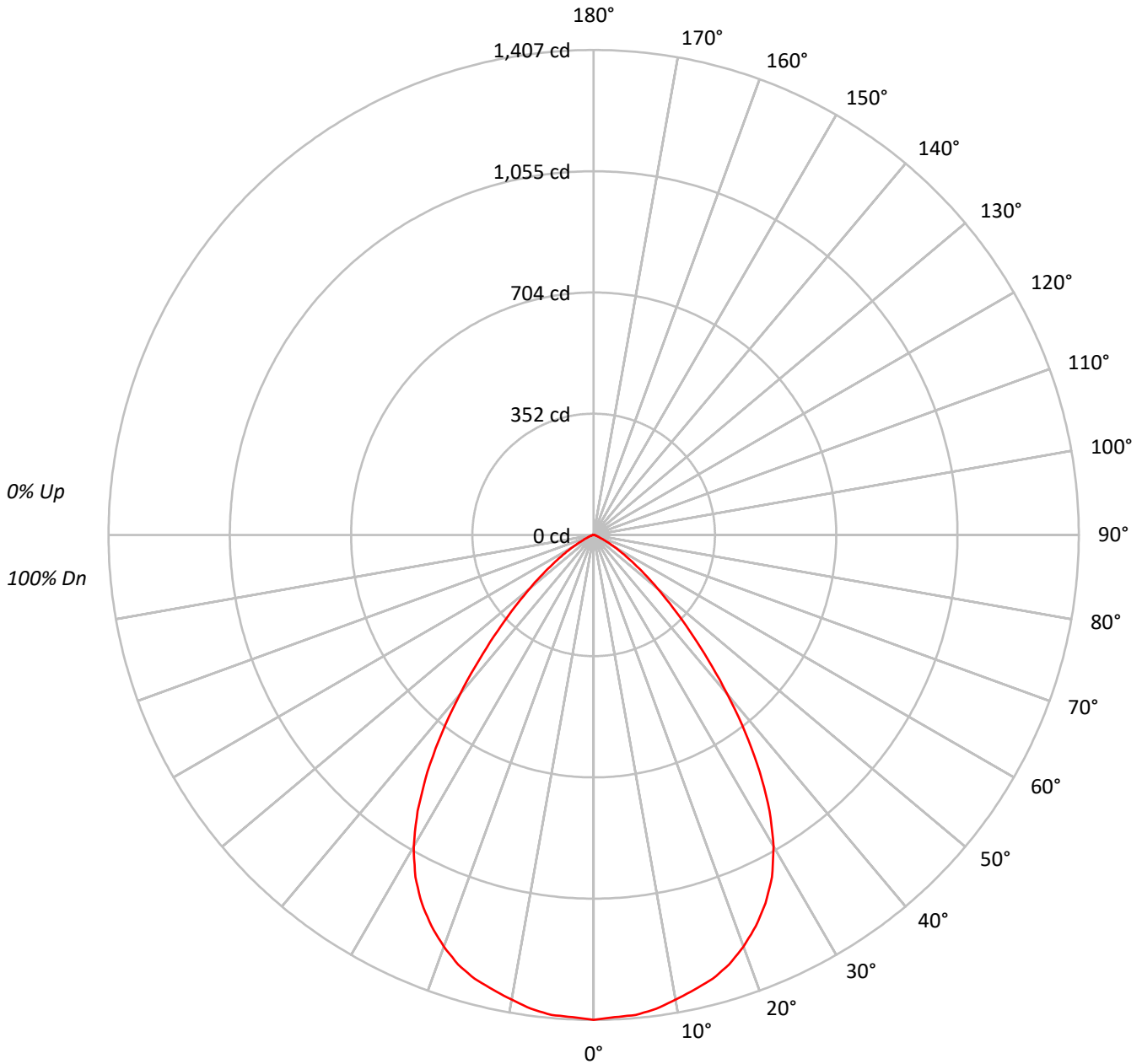




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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	49	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91794
5°	91555
10°	90699
15°	90061
20°	88243
25°	84906
30°	78610
35°	66949
40°	51278
45°	36204
50°	24440
55°	15469
60°	9029
65°	4122
70°	2556
75°	1689
80°	827
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	6.5
10°-20°	375.0	18.4
20°-30°	539.1	26.4
30°-40°	518.4	25.4
40°-50°	308.7	15.1
50°-60°	127.3	6.2
60°-70°	32.0	1.6
70°-80°	7.3	0.4
80°-90°	0.9	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°	1046.6	51.3
0°-40°	1565.0	76.7
0°-60°	2001.0	98.0
0°-90°	2041.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1407	
5°	1398	133
15°	1333	375
25°	1180	539
35°	841	518
45°	392	309
55°	136	127
65°	27	32
75°	7	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1407.0
2.5°	1400.3
5°	1398.0
7.5°	1386.9
10°	1369.1
12.5°	1351.3
15°	1333.4
17.5°	1306.7
20°	1271.0
22.5°	1228.6
25°	1179.5
27.5°	1119.3
30°	1043.5
32.5°	949.8
35°	840.6
37.5°	722.5
40°	602.1
42.5°	490.5
45°	392.4
47.5°	310.0
50°	240.8
52.5°	185.0
55°	136.0
57.5°	98.1
60°	69.2
62.5°	44.6
65°	26.7
67.5°	17.8
70°	13.4
72.5°	8.9
75°	6.7
77.5°	4.4
80°	2.2
82.5°	2.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)