

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: P135230

Luminaire Tested: **LD6A20D010TE ERN6A20935 6LN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23370)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A20D010TE ERN6A20935 6LN1H
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1925.1 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.84
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

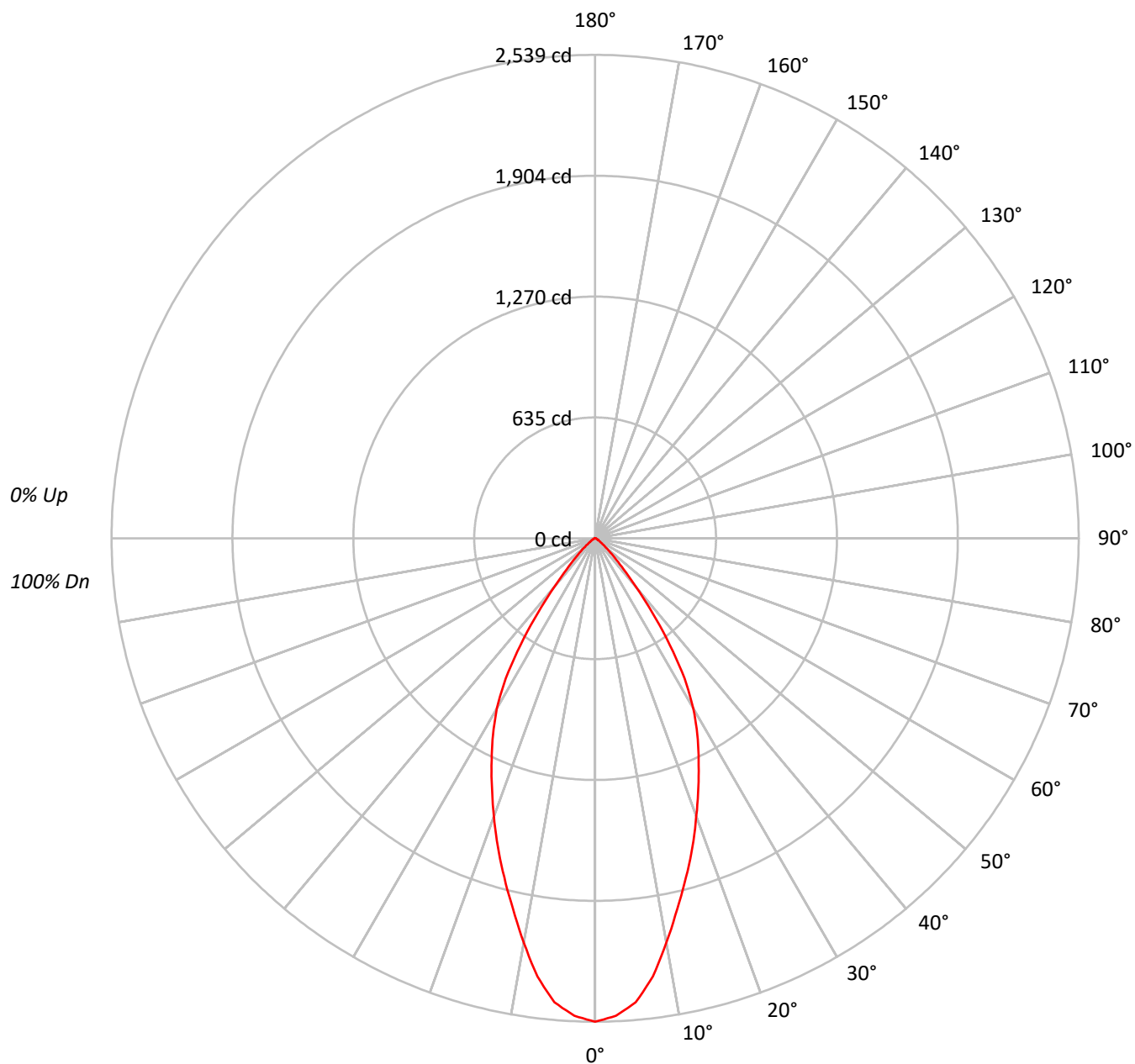
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	73	90	83	77	73	81	76	72		79	75	72		78
6	87	78	72	68	86	78	72	68	76	71	67		75	70	67		73
7	83	74	68	63	82	73	67	63	72	67	63		71	66	63		69
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	56	64	59	55		63	59	55		62
10	72	62	56	52	71	62	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165652
5°	160247
10°	142862
15°	124514
20°	107835
25°	92530
30°	77669
35°	54500
40°	28369
45°	13498
50°	7084
55°	3833
60°	2649
65°	1729
70°	1278
75°	1134
80°	827
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	11.6
10°-20°	515.1	26.8
20°-30°	589.5	30.6
30°-40°	419.9	21.8
40°-50°	127.0	6.6
50°-60°	32.9	1.7
60°-70°	12.2	0.6
70°-80°	4.1	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°	1328.6	69.0
0°-40°	1748.6	90.8
0°-60°	1908.5	99.1
0°-90°	1925.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2539	
5°	2447	224
15°	1844	515
25°	1285	590
35°	684	420
45°	146	127
55°	34	33
65°	11	12
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2539.1
2.5°	2509.9
5°	2446.9
7.5°	2320.8
10°	2156.5
12.5°	1992.2
15°	1843.5
17.5°	1699.5
20°	1553.2
22.5°	1415.9
25°	1285.4
27.5°	1161.5
30°	1031.0
32.5°	873.4
35°	684.3
37.5°	490.7
40°	333.1
42.5°	220.6
45°	146.3
47.5°	101.3
50°	69.8
52.5°	45.0
55°	33.7
57.5°	24.8
60°	20.3
62.5°	15.8
65°	11.2
67.5°	9.0
70°	6.7
72.5°	4.5
75°	4.5
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)