

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: P135344

Luminaire Tested: **LD6A20D010TE ERM6A20827 6LM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23398)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A20D010TE ERM6A20827 6LM1LI
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2337.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.8
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

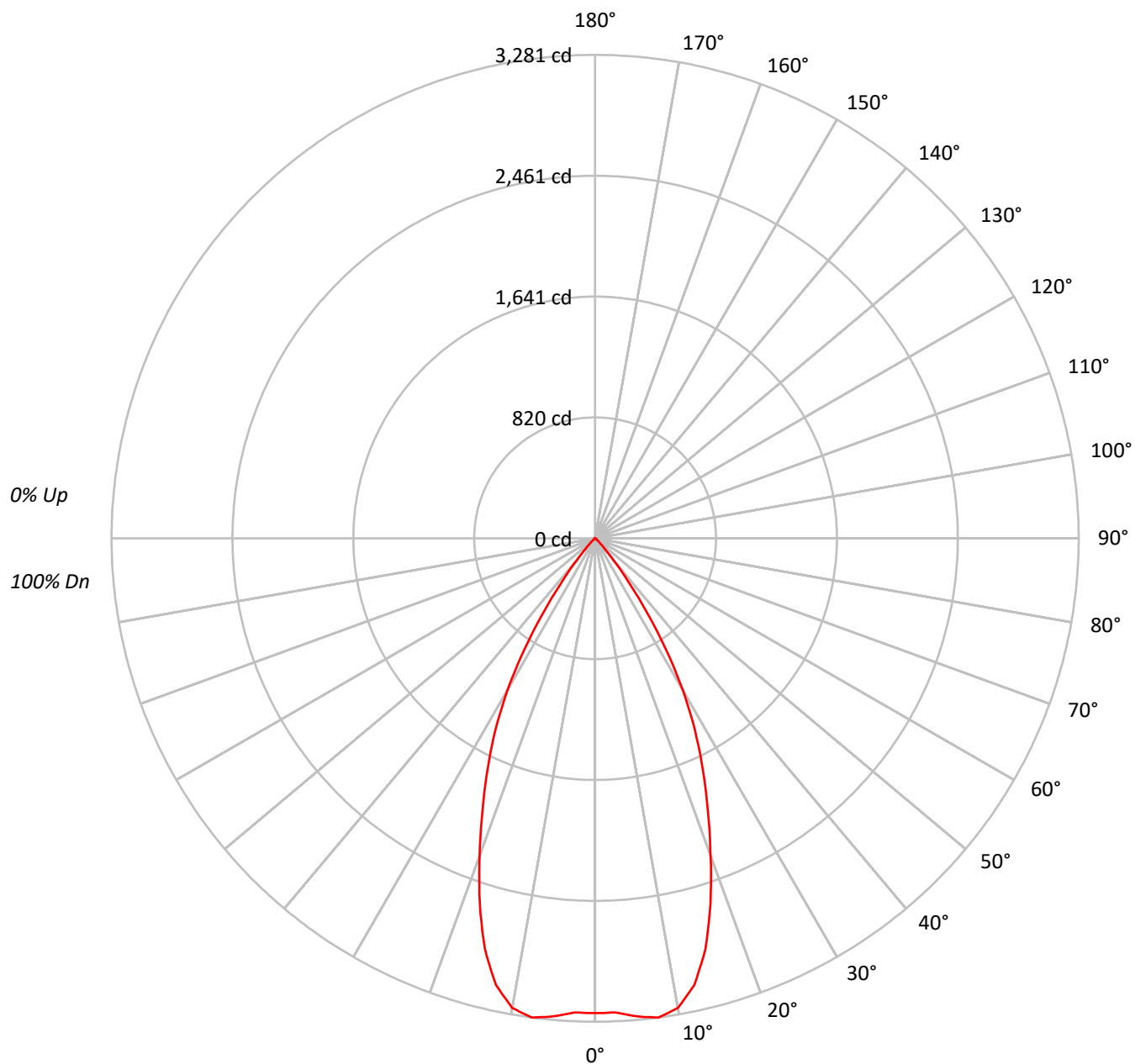
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94		
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89		
3	104	98	93	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84		
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79		
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74		
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70		
7	87	78	72	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66		
8	83	74	69	65	82	73	68	65	72	68	64	71	67	64	70	67	64	63		
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	61	59		
10	76	67	62	58	75	67	61	58	66	61	58	65	61	58	64	60	57	56		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	210257
5°	213327
10°	214435
15°	195109
20°	158975
25°	124217
30°	89511
35°	47818
40°	16641
45°	4512
50°	1441
55°	717
60°	418
65°	247
70°	305
75°	403
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	13.3
10°-20°	791.2	33.9
20°-30°	786.5	33.7
30°-40°	387.2	16.6
40°-50°	52.1	2.2
50°-60°	6.1	0.3
60°-70°	2.2	0.1
70°-80°	1.0	0.0
80°-90°	0.0	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°	1888.5	80.8
0°-40°	2275.7	97.4
0°-60°	2333.8	99.9
0°-90°	2337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3223	
5°	3257	311
15°	2889	791
25°	1726	786
35°	600	387
45°	49	52
55°	6	6
65°	2	2
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3222.8
2.5°	3221.2
5°	3257.4
7.5°	3281.1
10°	3236.9
12.5°	3106.1
15°	2888.7
17.5°	2603.4
20°	2289.8
22.5°	1995.1
25°	1725.6
27.5°	1464.0
30°	1188.2
32.5°	892.0
35°	600.4
37.5°	360.9
40°	195.4
42.5°	100.9
45°	48.9
47.5°	23.6
50°	14.2
52.5°	7.9
55°	6.3
57.5°	4.7
60°	3.2
62.5°	3.2
65°	1.6
67.5°	1.6
70°	1.6
72.5°	1.6
75°	1.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)