

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: P133514

Luminaire Tested: **LD6A20D010TE ERN6A20935 6LN1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P133514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23397)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A20D010TE ERN6A20935 6LN1LI
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2221.2 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.49
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

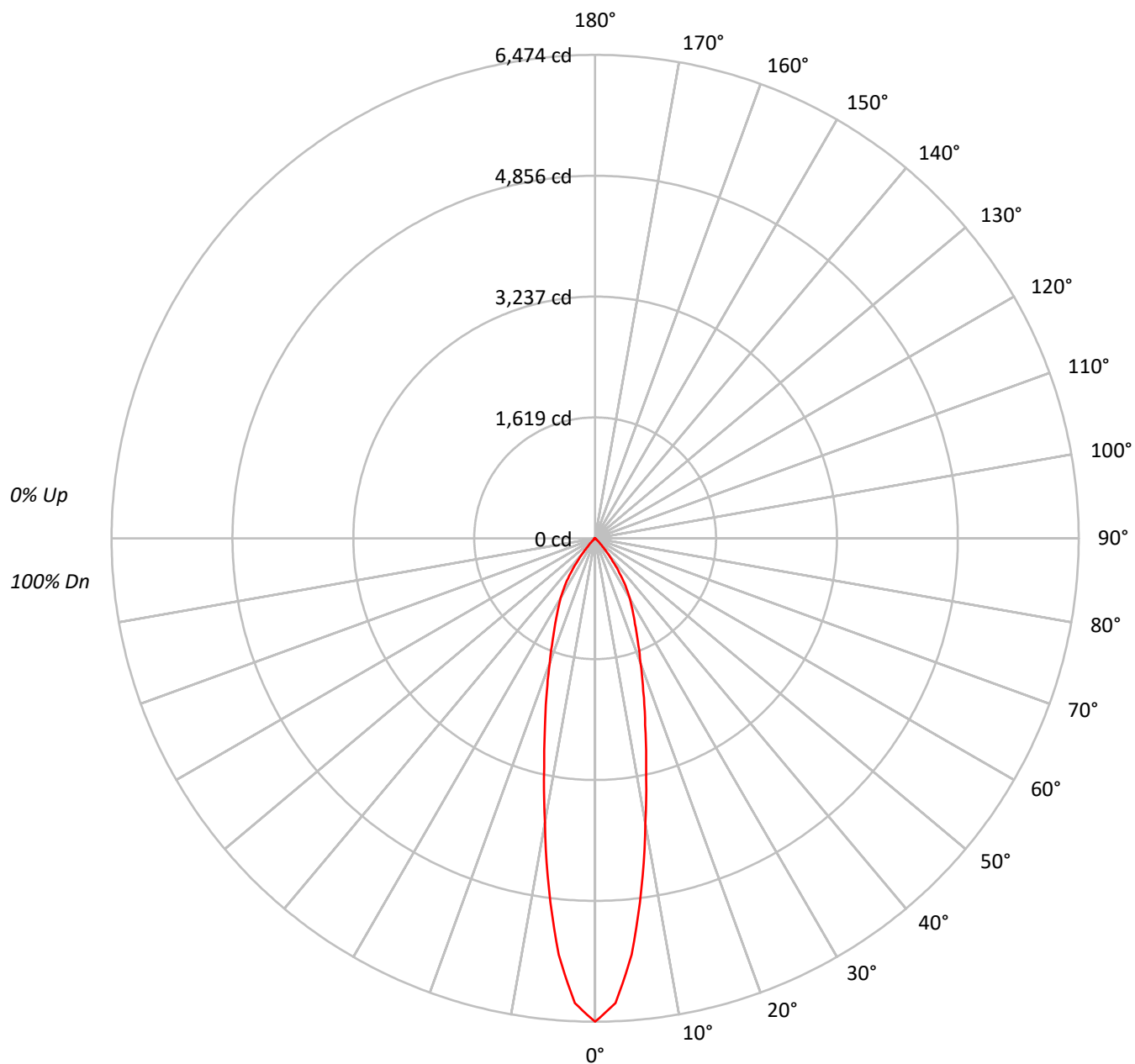
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95		
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	87	85		
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76		
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	68	74	70	67	66		
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63		
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	422342
5°	366586
10°	256509
15°	174772
20°	123262
25°	90773
30°	69638
35°	45564
40°	19784
45°	6329
50°	1898
55°	535
60°	404
65°	247
70°	305
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.8	21.5
10°-20°	728.8	32.8
20°-30°	587.8	26.5
30°-40°	351.8	15.8
40°-50°	67.4	3.0
50°-60°	5.5	0.2
60°-70°	1.8	0.1
70°-80°	0.2	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°	1794.4	80.8
0°-40°	2146.3	96.6
0°-60°	2219.2	99.9
0°-90°	2221.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6474	
5°	5598	478
15°	2588	729
25°	1261	588
35°	572	352
45°	69	67
55°	5	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6473.6
2.5°	6232.0
5°	5597.6
7.5°	4738.7
10°	3872.0
12.5°	3147.2
15°	2587.6
17.5°	2144.8
20°	1775.4
22.5°	1488.7
25°	1261.0
27.5°	1078.6
30°	924.4
32.5°	760.7
35°	572.1
37.5°	385.0
40°	232.3
42.5°	129.4
45°	68.6
47.5°	35.9
50°	18.7
52.5°	6.3
55°	4.7
57.5°	3.1
60°	3.1
62.5°	1.6
65°	1.6
67.5°	1.6
70°	1.6
72.5°	0.0
75°	0.0
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)