

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: P208487

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20D010 EU4B10208040 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1377.5 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

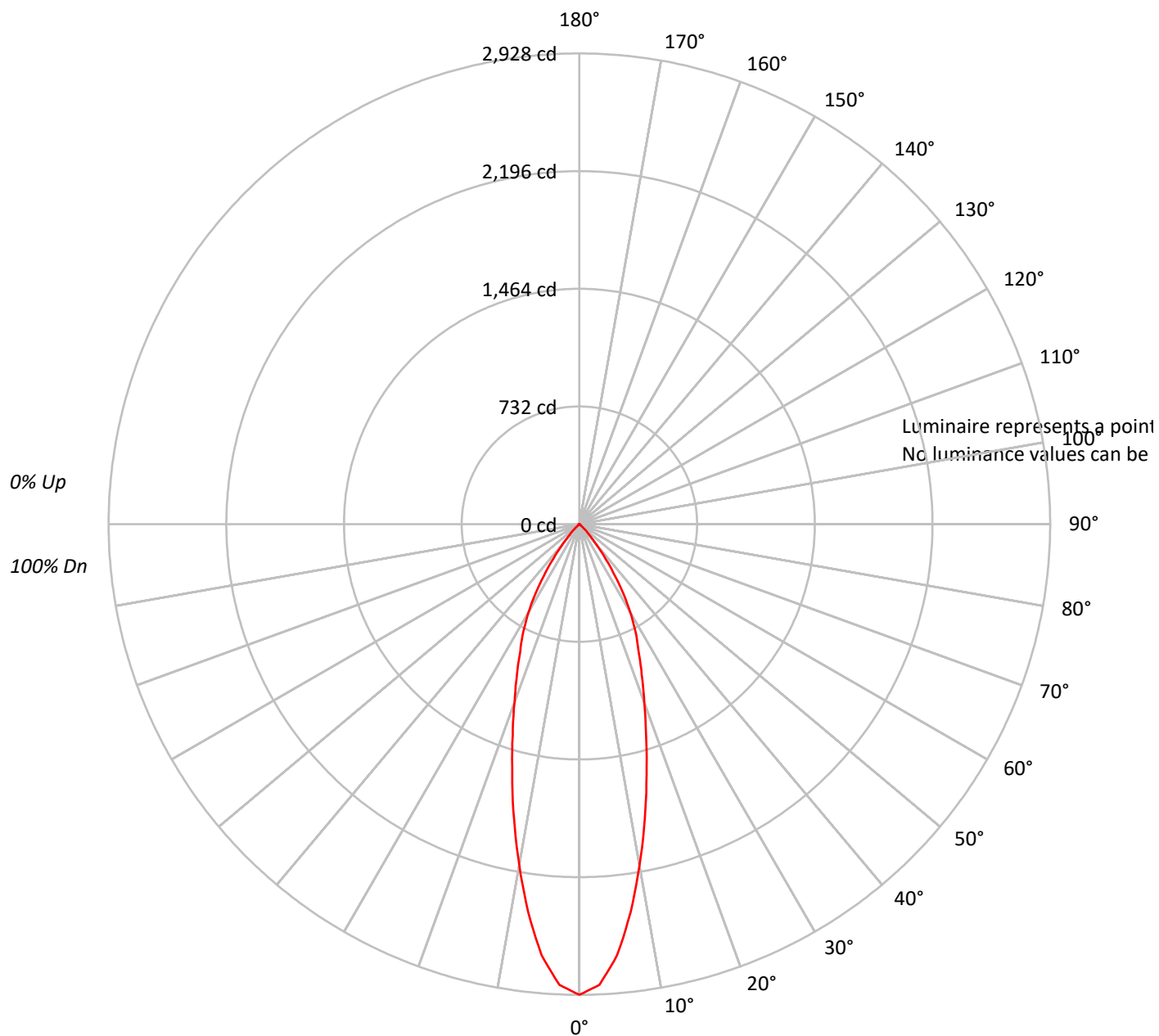
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208487

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBNWH1

Luminous Intensity Polar Plot





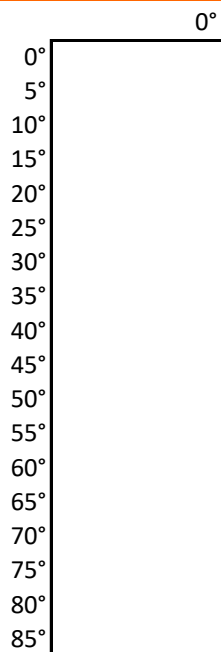
TEST NUMBER: P208487

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBNWH1

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208487

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBNWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	17.4
10°-20°	449.1	32.6
20°-30°	402.9	29.2
30°-40°	231.2	16.8
40°-50°	46.1	3.3
50°-60°	5.8	0.4
60°-70°	2.7	0.2
70°-80°	0.3	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°	1091.4	79.2
0°-40°	1322.6	96.0
0°-60°	1374.6	99.8
0°-90°	1377.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1377.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2928	
5°	2692	239
15°	1612	449
25°	870	403
35°	366	231
45°	50	46
55°	7	6
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P208487

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBNWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2927.6
2.5°	2868.1
5°	2692.1
7.5°	2435.3
10°	2154.7
12.5°	1878.8
15°	1612.4
17.5°	1379.4
20°	1179.6
22.5°	1013.1
25°	870.4
27.5°	756.3
30°	630.2
32.5°	501.8
35°	366.2
37.5°	249.7
40°	154.6
42.5°	92.8
45°	49.9
47.5°	21.4
50°	9.5
52.5°	7.1
55°	7.1
57.5°	4.8
60°	4.8
62.5°	2.4
65°	2.4
67.5°	2.4
70°	2.4
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)