

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: P207159

Luminaire Tested: **LD4B20D010 EU4B10209035 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207159
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 EU4B10209035 4LBMH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 1319.4 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

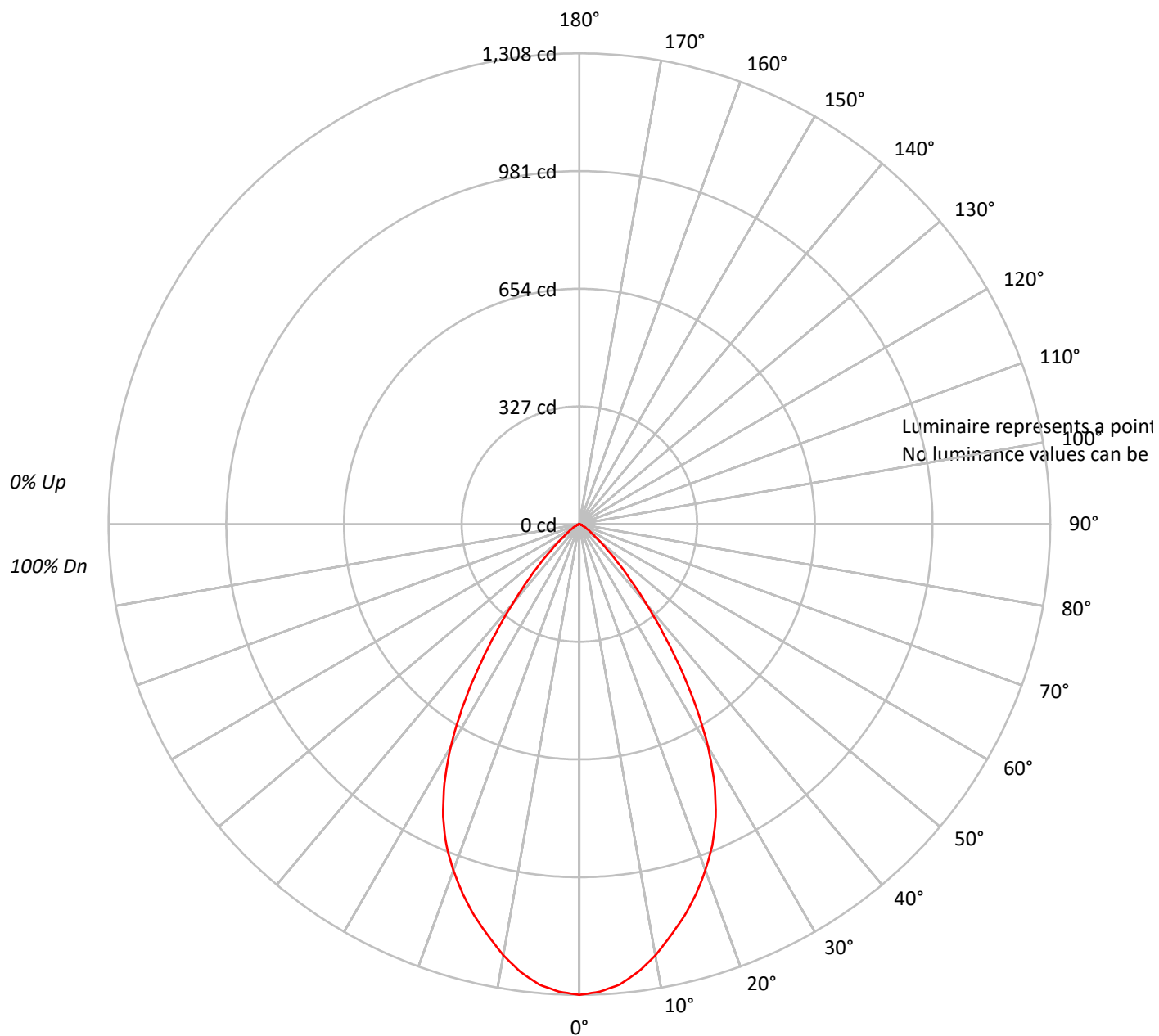
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207159

CATALOG NUMBER: LD4B20D010 EU4B10209035 4LBMH1

Luminous Intensity Polar Plot





TEST NUMBER: P207159

CATALOG NUMBER: LD4B20D010 EU4B10209035 4LBMH1

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	110	108	105	111	108	106	104		104	102	100			100	99	97			97
2	107	102	98	94	105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	82			86
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	90	82	75	71	89	81	75	70		79	74	70			77	73	69			75
6	86	76	70	65	84	75	69	65		74	68	64			72	68	64			71
7	81	71	65	60	80	70	64	60		69	64	60			68	63	59			67
8	77	67	60	56	75	66	60	56		65	59	56			64	59	55			63
9	73	63	56	52	72	62	56	52		61	56	52			60	55	52			59
10	69	59	53	49	68	59	53	49		58	52	49			57	52	48			56

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207159

CATALOG NUMBER: LD4B20D010 EU4B10209035 4LBMH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	9.1
10°-20°	315.8	23.9
20°-30°	405.9	30.8
30°-40°	305.4	23.1
40°-50°	122.6	9.3
50°-60°	34.8	2.6
60°-70°	11.0	0.8
70°-80°	3.2	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°	842.1	63.8
0°-40°	1147.4	87.0
0°-60°	1304.9	98.9
0°-90°	1319.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1308	
5°	1284	120
15°	1127	316
25°	896	406
35°	490	305
45°	151	123
55°	36	35
65°	10	11
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P207159

CATALOG NUMBER: LD4B20D010 EU4B10209035 4LBMH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1308.3
2.5°	1300.3
5°	1284.4
7.5°	1254.5
10°	1216.7
12.5°	1170.9
15°	1127.1
17.5°	1077.3
20°	1023.5
22.5°	965.8
25°	896.1
27.5°	812.4
30°	714.9
32.5°	605.3
35°	489.9
37.5°	382.3
40°	286.7
42.5°	211.1
45°	151.3
47.5°	103.5
50°	71.7
52.5°	49.8
55°	35.8
57.5°	25.9
60°	19.9
62.5°	13.9
65°	10.0
67.5°	8.0
70°	6.0
72.5°	4.0
75°	2.0
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)