

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: P207568

Luminaire Tested: **LD4B20D010 EU4B10209024 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207568
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 EU4B10209024 4LBMMW1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH MATTE WHITE 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: 1145.1 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

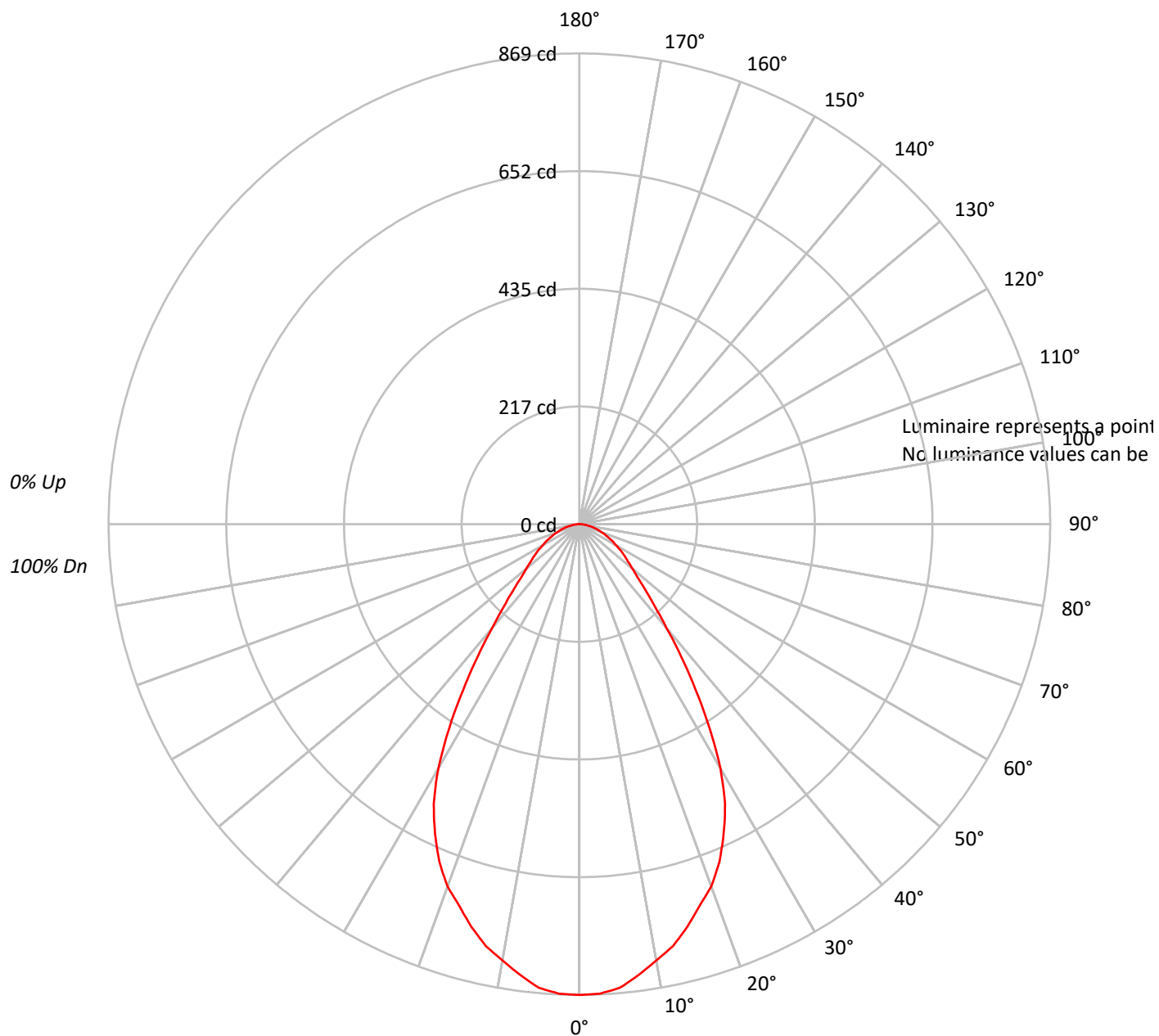
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot

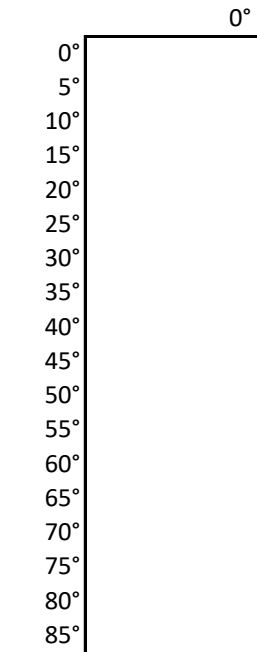


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					0
RW	70	50	30	10		70	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		100		
1	112	108	105	102		109	106	103	100		102	99	97		98	96	94		89		
2	104	98	92	88		102	96	91	87		93	89	85		89	86	83		80		
3	97	89	83	77		95	87	82	77		85	80	76		82	78	74		71		
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		64		
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		58		
6	80	69	62	56		78	68	61	56		66	60	56		65	59	55		53		
7	75	64	57	52		74	63	56	51		62	56	51		60	55	51		49		
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		45		
9	67	55	48	44		66	55	48	44		54	48	44		53	47	43		42		
10	63	52	45	41		62	51	45	41		51	45	40		50	44	40		39		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	7.0
10°-20°	216.0	18.9
20°-30°	287.2	25.1
30°-40°	234.9	20.5
40°-50°	136.8	11.9
50°-60°	90.7	7.9
60°-70°	59.7	5.2
70°-80°	31.5	2.7
80°-90°	7.7	0.7
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°	583.8	51.0
0°-40°	818.7	71.5
0°-60°	1046.3	91.4
0°-90°	1145.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	869	
5°	859	81
15°	770	216
25°	630	287
35°	375	235
45°	172	137
55°	101	91
65°	60	60
75°	30	31
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	869.3
2.5°	867.6
5°	859.3
7.5°	839.4
10°	817.8
12.5°	797.9
15°	769.7
17.5°	738.2
20°	711.7
22.5°	675.2
25°	630.4
27.5°	582.3
30°	520.9
32.5°	447.9
35°	374.9
37.5°	308.6
40°	250.5
42.5°	205.7
45°	172.5
47.5°	146.0
50°	127.7
52.5°	112.8
55°	101.2
57.5°	89.6
60°	78.0
62.5°	69.7
65°	59.7
67.5°	51.4
70°	43.1
72.5°	36.5
75°	29.9
77.5°	23.2
80°	16.6
82.5°	11.6
85°	6.6
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)