

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: P205713

Luminaire Tested: **LD4B20D010 EU4B10209050 4LBSH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205713
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 EU4B10209050 4LBSH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW 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: 1733.2 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

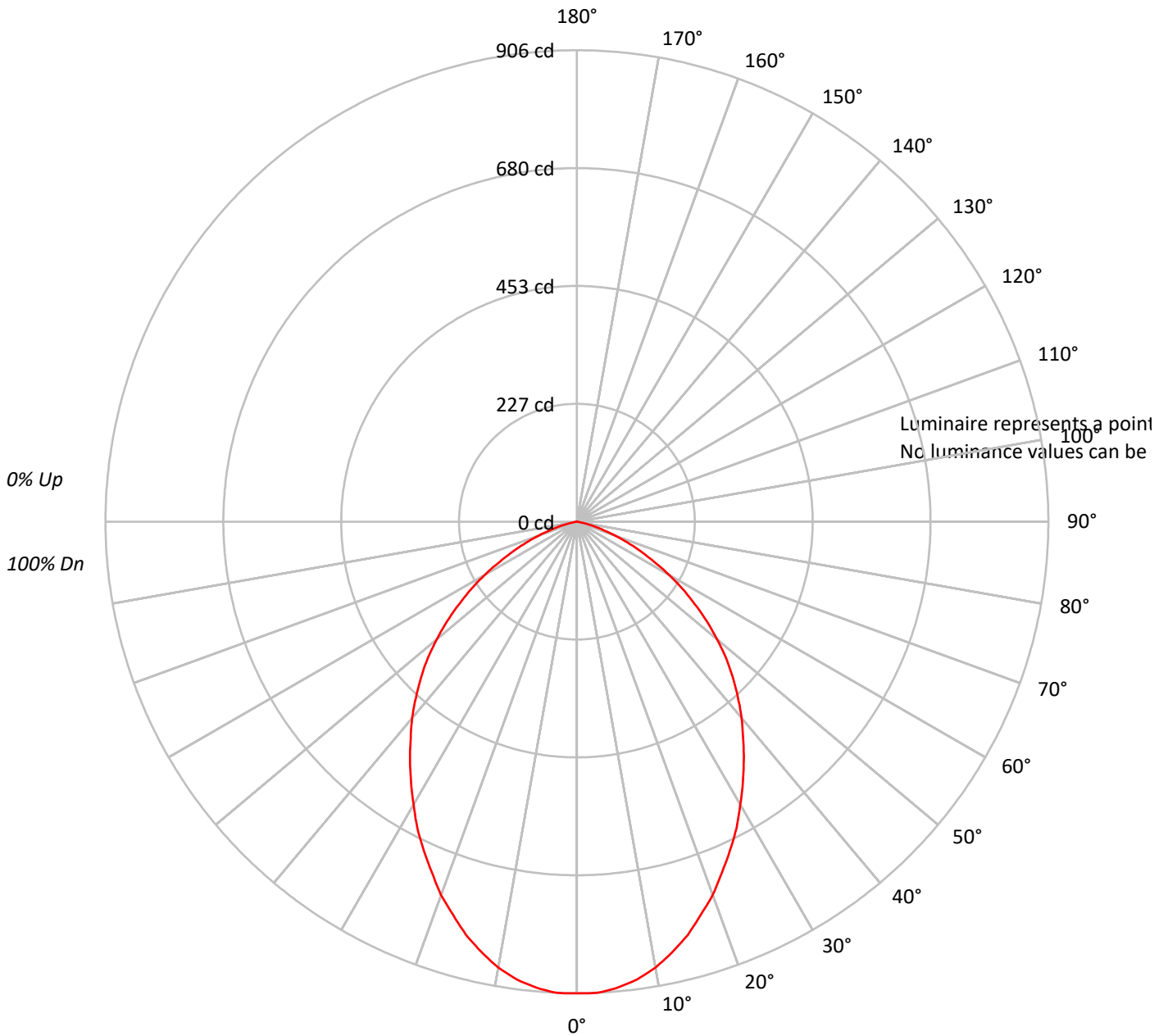
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																		
	2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77																		
	3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67																		
	4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																		
	5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																		
	6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46																		
	7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																		
	8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37																		
	9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34																		
	10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31																		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	4.9
10°-20°	230.8	13.3
20°-30°	320.5	18.5
30°-40°	349.8	20.2
40°-50°	326.3	18.8
50°-60°	247.6	14.3
60°-70°	135.6	7.8
70°-80°	37.3	2.2
80°-90°	0.5	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°	636.2	36.7
0°-40°	985.9	56.9
0°-60°	1559.8	90.0
0°-90°	1733.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	906	
5°	899	85
15°	822	231
25°	697	321
35°	559	350
45°	424	326
55°	277	248
65°	136	136
75°	32	37
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	906.5
2.5°	906.5
5°	898.9
7.5°	887.4
10°	870.2
12.5°	847.3
15°	822.5
17.5°	792.0
20°	763.4
22.5°	729.0
25°	696.6
27.5°	664.1
30°	627.9
32.5°	593.5
35°	559.2
37.5°	524.8
40°	492.4
42.5°	458.0
45°	423.7
47.5°	389.3
50°	351.1
52.5°	314.9
55°	276.7
57.5°	240.5
60°	204.2
62.5°	167.9
65°	135.5
67.5°	105.0
70°	78.2
72.5°	53.4
75°	32.4
77.5°	15.3
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)