

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: P205947

Luminaire Tested: **LD4B40D010 EU4B30509050 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205947
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: LD4B40D010 EU4B30509050 4LBSGPH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W
DL3-44.71W DLE-39.33W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3209.8 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

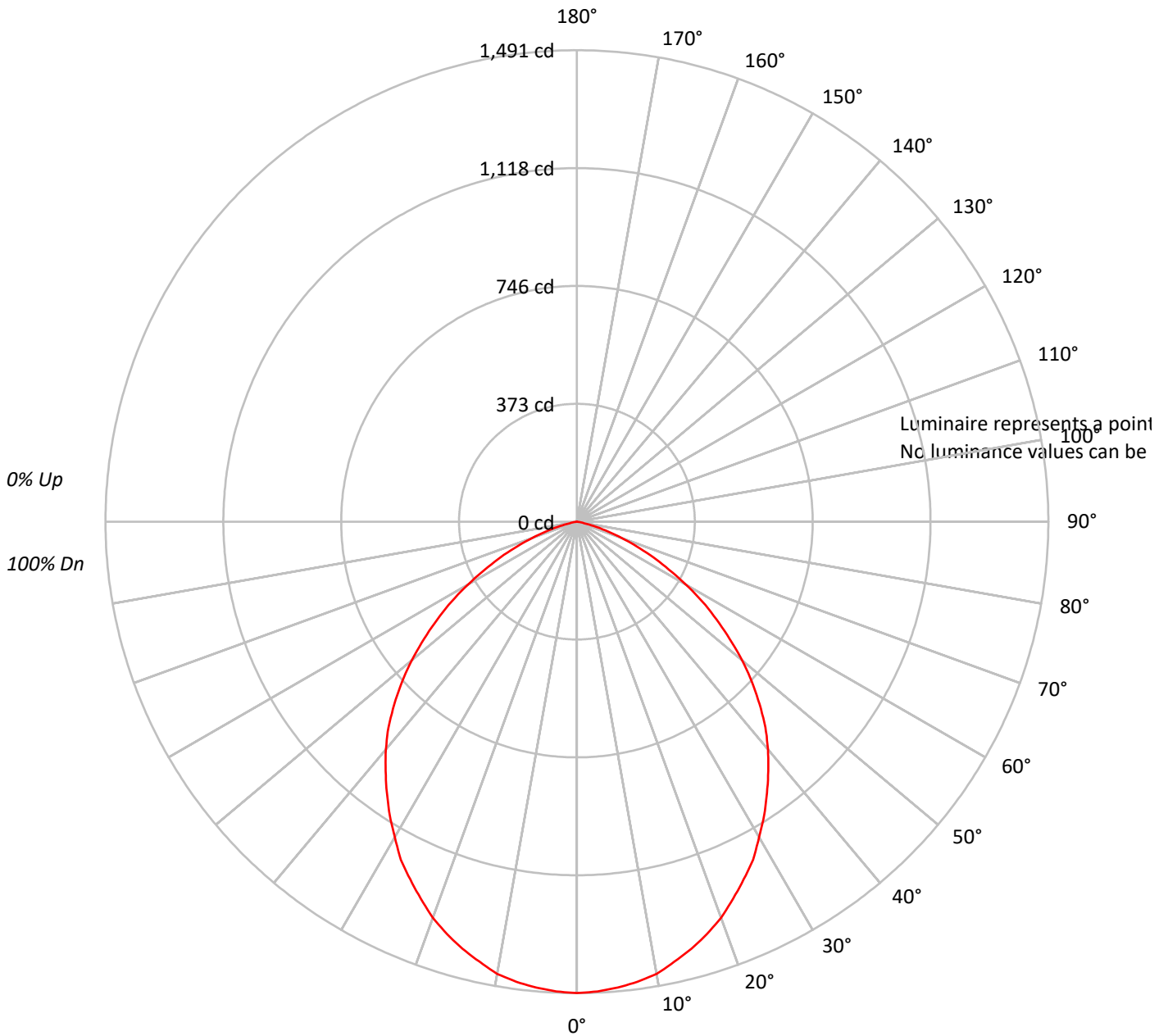
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88																			
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57																			
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50																			
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45																			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36																			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32																			
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	4.4
10°-20°	394.0	12.3
20°-30°	574.6	17.9
30°-40°	655.3	20.4
40°-50°	628.6	19.6
50°-60°	481.4	15.0
60°-70°	264.2	8.2
70°-80°	70.3	2.2
80°-90°	1.0	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°	1109.0	34.6
0°-40°	1764.3	55.0
0°-60°	2874.4	89.5
0°-90°	3209.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1491	
5°	1479	140
15°	1398	394
25°	1248	575
35°	1048	655
45°	817	629
55°	539	481
65°	266	264
75°	62	70
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1490.8
2.5°	1487.0
5°	1479.2
7.5°	1467.7
10°	1452.3
12.5°	1425.3
15°	1398.4
17.5°	1367.5
20°	1332.9
22.5°	1290.5
25°	1248.1
27.5°	1205.7
30°	1151.8
32.5°	1101.7
35°	1047.8
37.5°	993.9
40°	939.9
42.5°	882.2
45°	816.7
47.5°	751.2
50°	681.8
52.5°	608.6
55°	539.3
57.5°	470.0
60°	396.8
62.5°	327.4
65°	265.8
67.5°	204.2
70°	150.2
72.5°	100.2
75°	61.6
77.5°	27.0
80°	7.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)