

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: P212259

Luminaire Tested: **LSR4B40D010BZ EC4B30509027 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212259
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: LSR4B40D010BZ EC4B30509027 4LBMMW1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH MATTE WHITE 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: 2627.6 lumens
Efficiency: N/A
Efficacy: 62.9 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

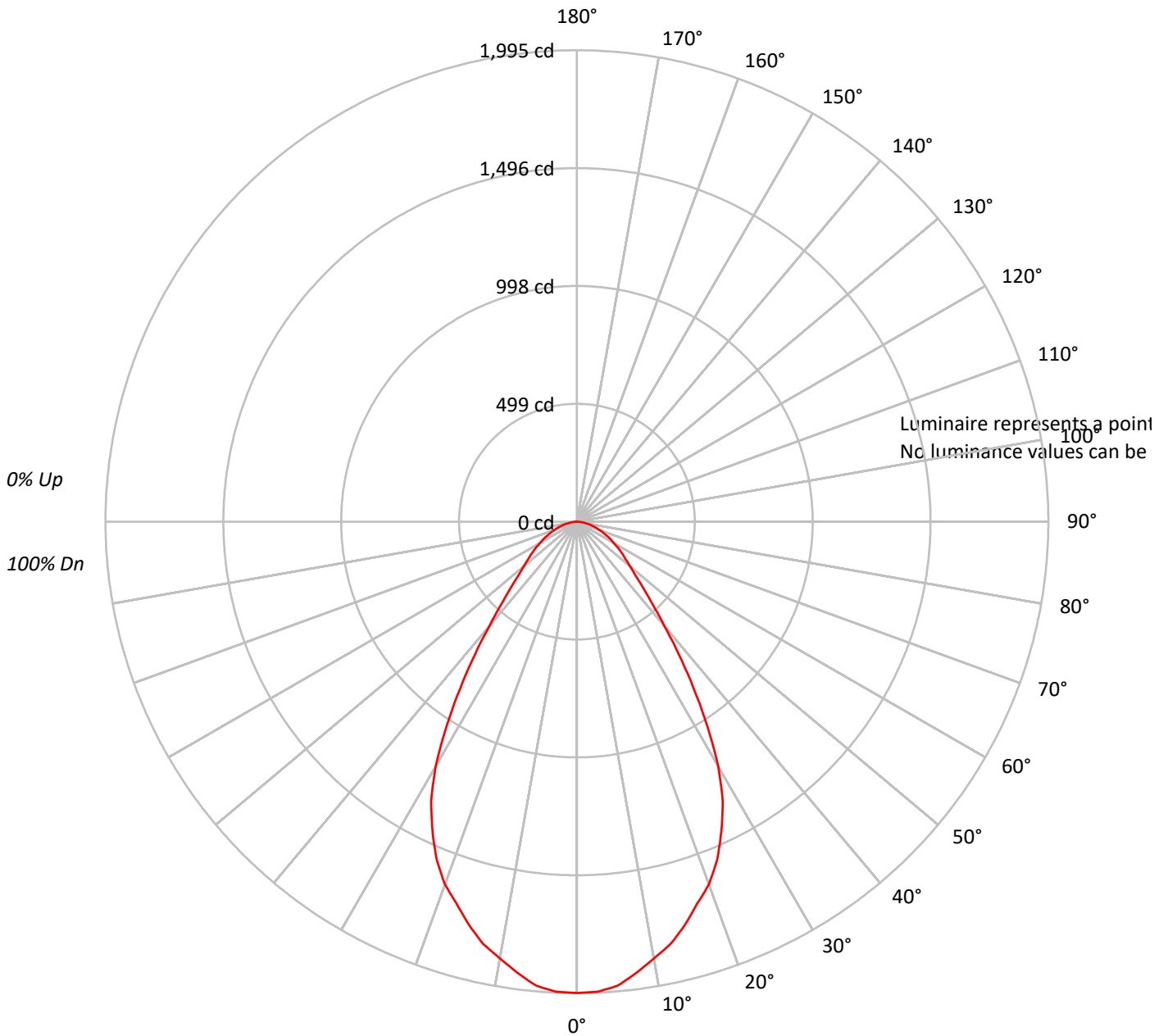
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80																			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53																			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49																			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																			
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	7.0
10°-20°	495.6	18.9
20°-30°	659.0	25.1
30°-40°	539.0	20.5
40°-50°	314.0	11.9
50°-60°	208.2	7.9
60°-70°	136.9	5.2
70°-80°	72.2	2.7
80°-90°	17.6	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°	1339.6	51.0
0°-40°	1878.6	71.5
0°-60°	2400.8	91.4
0°-90°	2627.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1995	
5°	1972	185
15°	1766	496
25°	1446	659
35°	860	539
45°	396	314
55°	232	208
65°	137	137
75°	68	72
85°	15	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1994.7
2.5°	1990.9
5°	1971.8
7.5°	1926.2
10°	1876.7
12.5°	1831.0
15°	1766.3
17.5°	1693.9
20°	1633.0
22.5°	1549.3
25°	1446.5
27.5°	1336.1
30°	1195.3
32.5°	1027.8
35°	860.3
37.5°	708.0
40°	574.8
42.5°	472.0
45°	395.9
47.5°	335.0
50°	293.1
52.5°	258.9
55°	232.2
57.5°	205.6
60°	178.9
62.5°	159.9
65°	137.0
67.5°	118.0
70°	99.0
72.5°	83.7
75°	68.5
77.5°	53.3
80°	38.1
82.5°	26.6
85°	15.2
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)