

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: P212544

Luminaire Tested: **LSR4B40D010BZ EC4B30509050 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212544
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 EC4B30509050 4LBCSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST 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: 3717.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

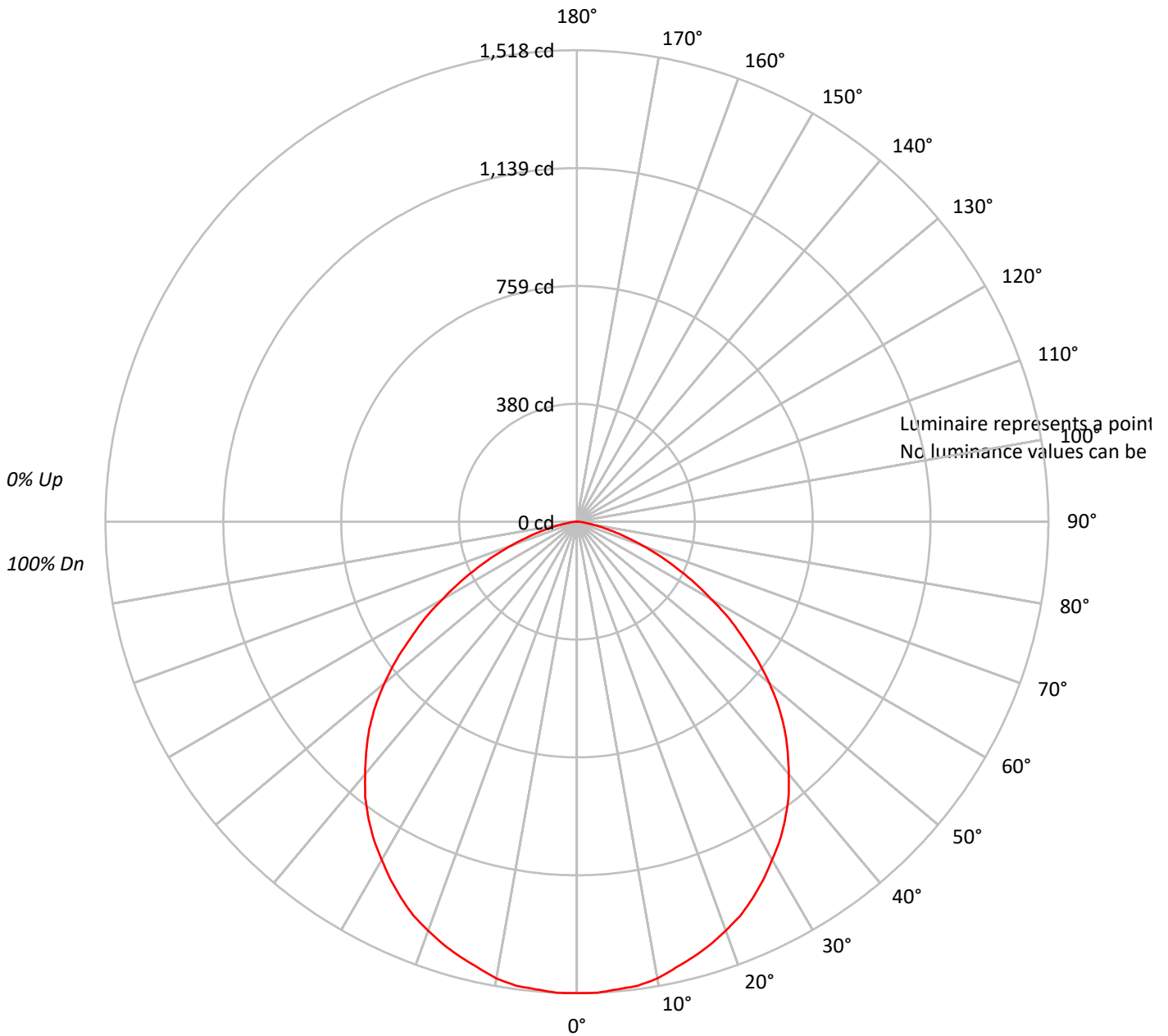
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20																	
RC	80									70									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	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	100	100	97	97	97	94	94	94	91	91	91	87																							
	1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	84	84	84	81	81	81	78	78	78	74																							
	2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	74	74	71	71	71	68	68	68	65	65	65	63																							
	3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63	63	63	60	60	60	57	57	57	54	54	54	51																							
	4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55	55	55	52	52	52	49	49	49	46	46	46	43																							
	5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48	48	48	45	45	45	42	42	42	39	39	39	37																							
	6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42	42	42	39	39	39	36	36	36	33	33	33	31																							
	7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37	37	37	34	34	34	31	31	31	28	28	28	27																							
	8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33	33	33	30	30	30	27	27	27	24	24	24	23																							
	9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30	30	30	27	27	27	24	24	24	21	21	21	20																							
	10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27	27	27	24	24	24	21	21	21	18	18	18	17																							

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	3.9
10°-20°	409.5	11.0
20°-30°	616.0	16.6
30°-40°	730.0	19.6
40°-50°	726.5	19.5
50°-60°	585.7	15.8
60°-70°	354.3	9.5
70°-80°	131.5	3.5
80°-90°	19.6	0.5
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°	1169.4	31.5
0°-40°	1899.4	51.1
0°-60°	3211.6	86.4
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1518	
5°	1511	144
15°	1451	410
25°	1338	616
35°	1169	730
45°	946	727
55°	653	586
65°	356	354
75°	119	132
85°	16	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1518.2
2.5°	1518.2
5°	1511.4
7.5°	1506.9
10°	1493.4
12.5°	1470.9
15°	1450.6
17.5°	1428.1
20°	1401.0
22.5°	1374.0
25°	1338.0
27.5°	1299.7
30°	1256.9
32.5°	1216.3
35°	1169.0
37.5°	1119.5
40°	1060.9
42.5°	1004.6
45°	946.0
47.5°	880.7
50°	808.6
52.5°	734.3
55°	653.2
57.5°	581.1
60°	500.0
62.5°	428.0
65°	355.9
67.5°	288.3
70°	225.2
72.5°	168.9
75°	119.4
77.5°	76.6
80°	45.0
82.5°	27.0
85°	15.8
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)