

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: P212189

Luminaire Tested: **LSR4B30D010BZ EC4B30509050 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212189
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: LSR4B30D010BZ EC4B30509050 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1664.4 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

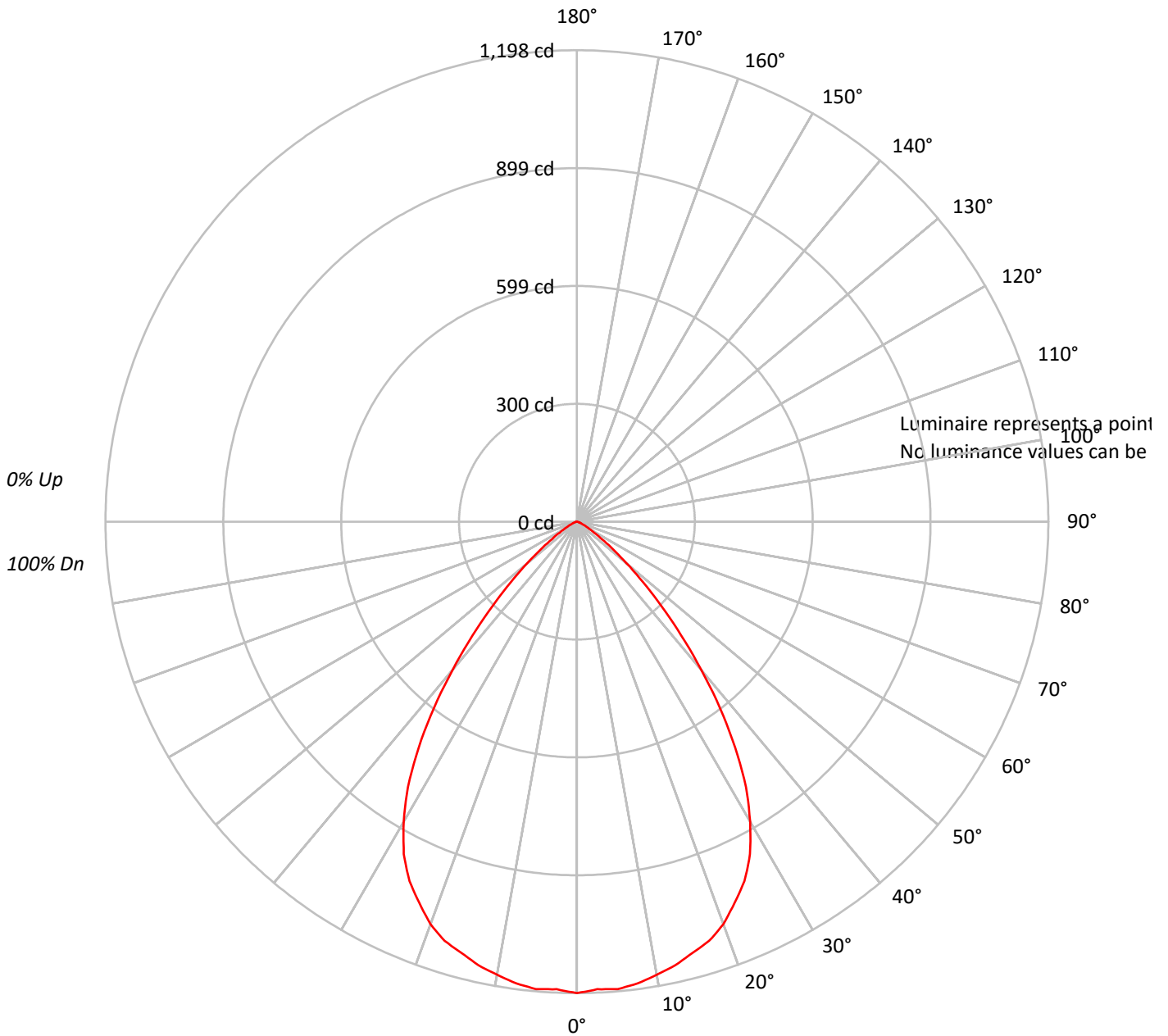
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	96	96	96	95	94	92																	
	1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	91	91	89	92	90	87	90	87	85	83																
	2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83	83	80	77	76	76	74	71	69	67	63																	
	3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76	76	74	71	69	67	63	63	58	54	53																	
	4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69	67	63	59	57	57	54	50	48	45	41																	
	5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63	63	59	57	57	54	50	48	45	41	37																	
	6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57	57	54	50	48	45	41	37	33	29	25																	
	7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53	53	49	45	41	37	33	29	25	21	17																	
	8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48	48	44	40	36	32	28	24	20	16	12																	
	9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	44	44	40	36	32	28	24	20	16	12	8																	
	10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	37	33	29	25	21	17	13	9	5																	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	6.8
10°-20°	320.2	19.2
20°-30°	459.2	27.6
30°-40°	432.4	26.0
40°-50°	238.8	14.3
50°-60°	76.6	4.6
60°-70°	19.1	1.2
70°-80°	4.6	0.3
80°-90°	0.4	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°	892.5	53.6
0°-40°	1324.9	79.6
0°-60°	1640.3	98.6
0°-90°	1664.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1664.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1198	
5°	1192	113
15°	1134	320
25°	1007	459
35°	702	432
45°	303	239
55°	78	77
65°	17	19
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1198.0
2.5°	1189.3
5°	1192.2
7.5°	1183.5
10°	1169.1
12.5°	1154.7
15°	1134.4
17.5°	1117.1
20°	1088.3
22.5°	1047.9
25°	1007.4
27.5°	952.6
30°	880.4
32.5°	799.6
35°	701.5
37.5°	597.5
40°	490.7
42.5°	392.6
45°	303.1
47.5°	228.0
50°	164.5
52.5°	115.5
55°	77.9
57.5°	52.0
60°	37.5
62.5°	26.0
65°	17.3
67.5°	11.5
70°	8.7
72.5°	5.8
75°	2.9
77.5°	2.9
80°	2.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)