

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: P211660

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211660
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: LE_4B20D010 EC4B10208035 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 2169.1 lumens
Efficiency: N/A
Efficacy: 104.3 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

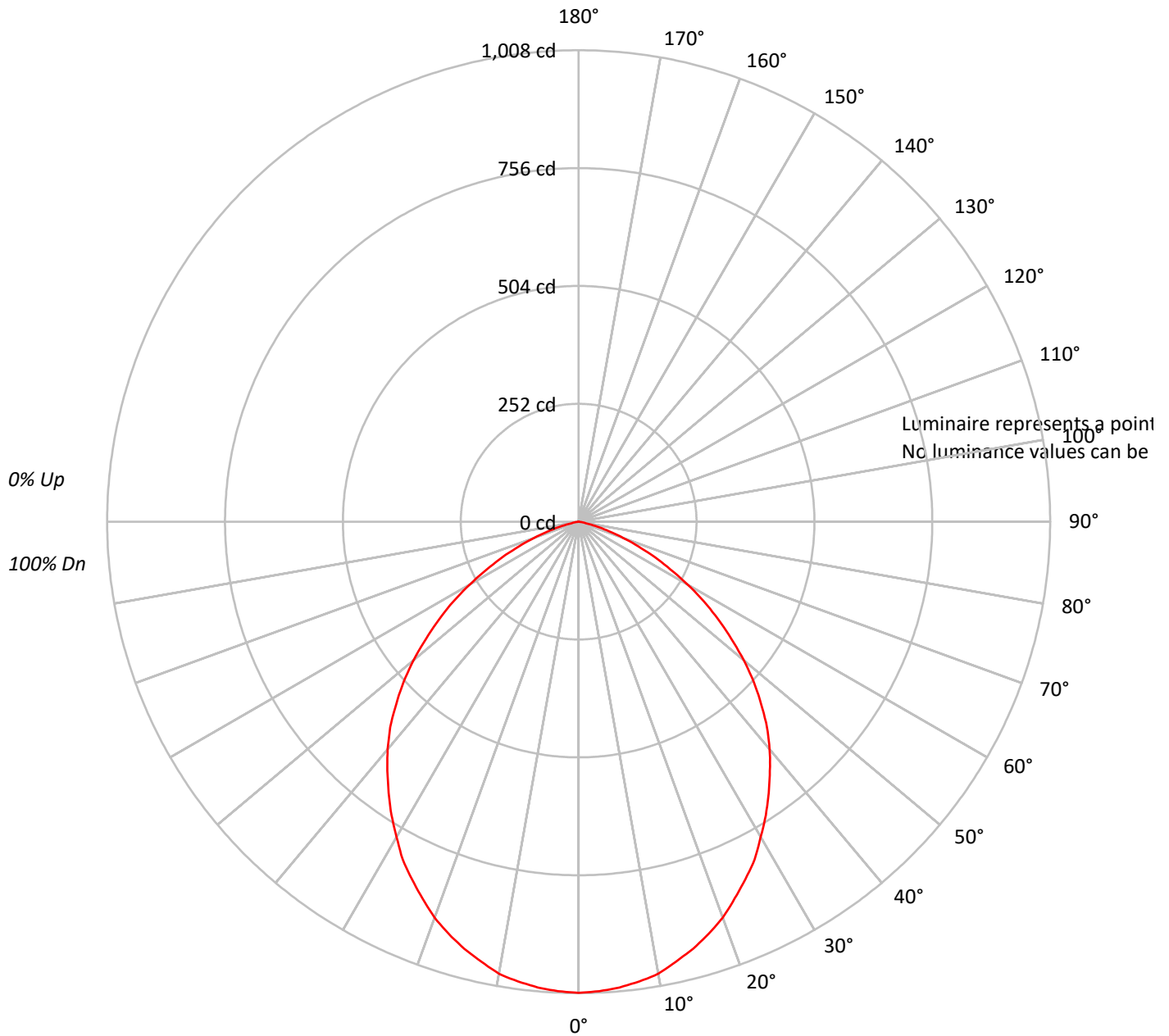
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	105	102	99		101	98	96		97	95	93		93	92	90
2	102	95	89	84		100	93	88	83		90	85	82		87	83	80		84	81	78
3	94	85	78	72		92	83	77	71		80	75	70		78	73	69		75	71	68
4	87	76	68	62		85	75	67	62		72	66	61		70	65	60		68	63	59
5	80	68	60	54		78	67	60	54		65	59	53		63	58	53		62	56	52
6	74	62	54	48		73	61	53	48		59	52	47		58	52	47		56	51	47
7	69	57	48	43		68	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38		63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35		59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32		56	44	36	32		43	36	31		42	36	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	4.4
10°-20°	266.3	12.3
20°-30°	388.3	17.9
30°-40°	442.8	20.4
40°-50°	424.8	19.6
50°-60°	325.4	15.0
60°-70°	178.5	8.2
70°-80°	47.4	2.2
80°-90°	0.7	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°	749.5	34.6
0°-40°	1192.3	55.0
0°-60°	1942.5	89.5
0°-90°	2169.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1008	
5°	1000	95
15°	945	266
25°	843	388
35°	708	443
45°	552	425
55°	364	325
65°	180	179
75°	42	47
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1007.5
2.5°	1004.9
5°	999.7
7.5°	991.8
10°	981.5
12.5°	963.3
15°	945.1
17.5°	924.2
20°	900.7
22.5°	872.1
25°	843.4
27.5°	814.8
30°	778.4
32.5°	744.5
35°	708.1
37.5°	671.6
40°	635.2
42.5°	596.1
45°	551.9
47.5°	507.6
50°	460.8
52.5°	411.3
55°	364.5
57.5°	317.6
60°	268.2
62.5°	221.3
65°	179.7
67.5°	137.9
70°	101.5
72.5°	67.6
75°	41.6
77.5°	18.2
80°	5.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)