

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: P225059

Luminaire Tested: **LSR2WM2B20FL409027D010 2LBD\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14830)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2WM2B20FL409027D010 2LBD\*WMH  
Description: 2000 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1349.4 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

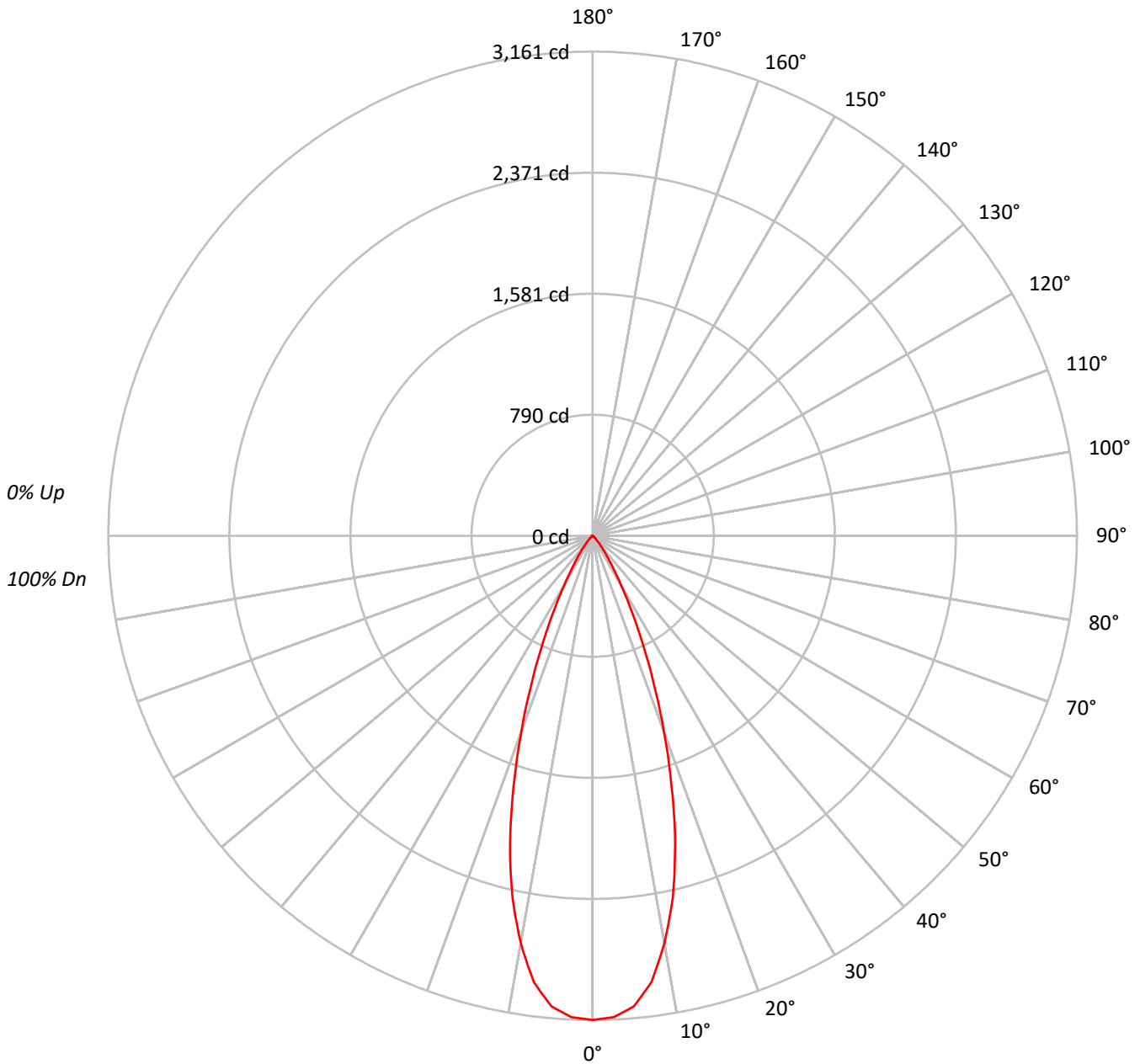
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									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															
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95												95															
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91												91															
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87												87															
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	83												83															
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79												79															
6	94	87	82	78	93	86	81	78	85	81	77	83	80	77	82	79	77	75												75															
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72												72															
8	87	79	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69												69															
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66												66															
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64												64															

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1224478
5°	1199216
10°	1062400
15°	834823
20°	561258
25°	326055
30°	162985
35°	76840
40°	36305
45°	15941
50°	8256
55°	4592
60°	2634
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.2	20.9
10°-20°	564.6	41.8
20°-30°	356.9	26.5
30°-40°	111.7	8.3
40°-50°	25.9	1.9
50°-60°	6.8	0.5
60°-70°	1.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	1203.7	89.2
0°-40°	1315.4	97.5
0°-60°	1348.1	99.9
0°-90°	1349.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3161	
5°	3084	282
15°	2082	565
25°	763	357
35°	162	112
45°	29	26
55°	7	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3161.2
2.5°	3145.8
5°	3084.2
7.5°	2938.8
10°	2701.1
12.5°	2418.8
15°	2081.8
17.5°	1714.0
20°	1361.6
22.5°	1036.6
25°	762.9
27.5°	538.8
30°	364.4
32.5°	242.9
35°	162.5
37.5°	109.5
40°	71.8
42.5°	44.5
45°	29.1
47.5°	20.5
50°	13.7
52.5°	10.3
55°	6.8
57.5°	5.1
60°	3.4
62.5°	3.4
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)