

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: HALO COMMERCIAL

Report Number: P581779

Luminaire Tested: **HC615D010-HM60525927-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1222.5 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

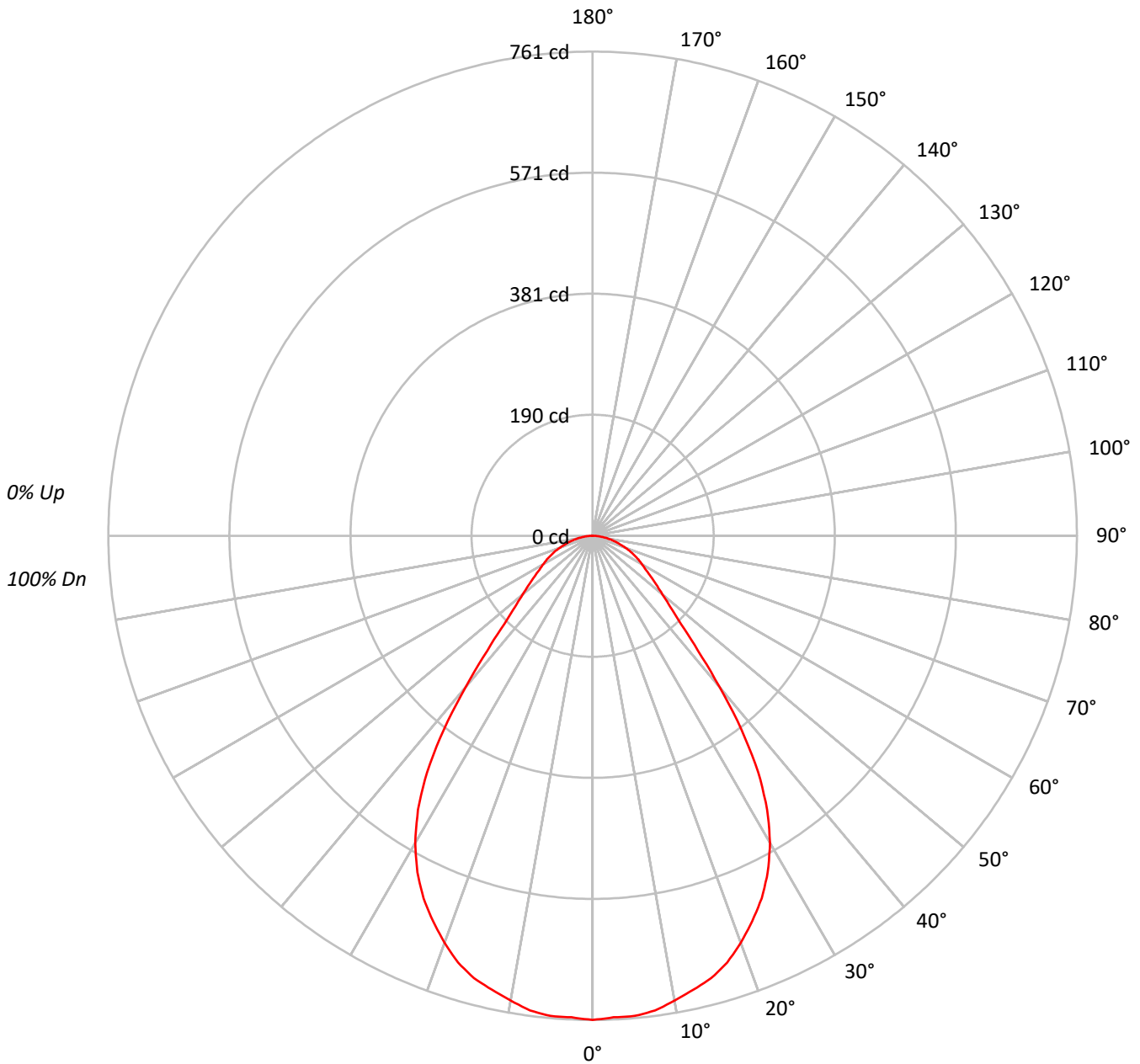
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41718
5°	41690
10°	41287
15°	40857
20°	39711
25°	38028
30°	35290
35°	30370
40°	22163
45°	15188
50°	12204
55°	10638
60°	9824
65°	9340
70°	8719
75°	8155
80°	7419
85°	6353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	5.9
10°-20°	202.2	16.5
20°-30°	287.6	23.5
30°-40°	276.9	22.6
40°-50°	159.3	13.0
50°-60°	100.9	8.3
60°-70°	71.5	5.8
70°-80°	40.8	3.3
80°-90°	11.7	1.0
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°	561.6	45.9
0°-40°	838.4	68.6
0°-60°	1098.6	89.9
0°-90°	1222.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	761	
5°	758	72
15°	720	202
25°	629	288
35°	454	277
45°	196	159
55°	111	101
65°	72	71
75°	38	41
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	761.0
2.5°	757.6
5°	757.6
7.5°	752.6
10°	741.7
12.5°	730.8
15°	719.9
17.5°	703.2
20°	680.7
22.5°	655.5
25°	628.7
27.5°	596.1
30°	557.5
32.5°	510.6
35°	453.8
37.5°	384.3
40°	309.7
42.5°	244.5
45°	195.9
47.5°	164.9
50°	143.1
52.5°	125.5
55°	111.3
57.5°	98.7
60°	89.6
62.5°	81.2
65°	72.0
67.5°	63.7
70°	54.4
72.5°	46.1
75°	38.5
77.5°	31.0
80°	23.5
82.5°	16.8
85°	10.1
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)