

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: P581707

Luminaire Tested: **HC615D010-HM60525827-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581707
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-HM60525827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1447.6 lumens
Efficiency: N/A
Efficacy: 103.4 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

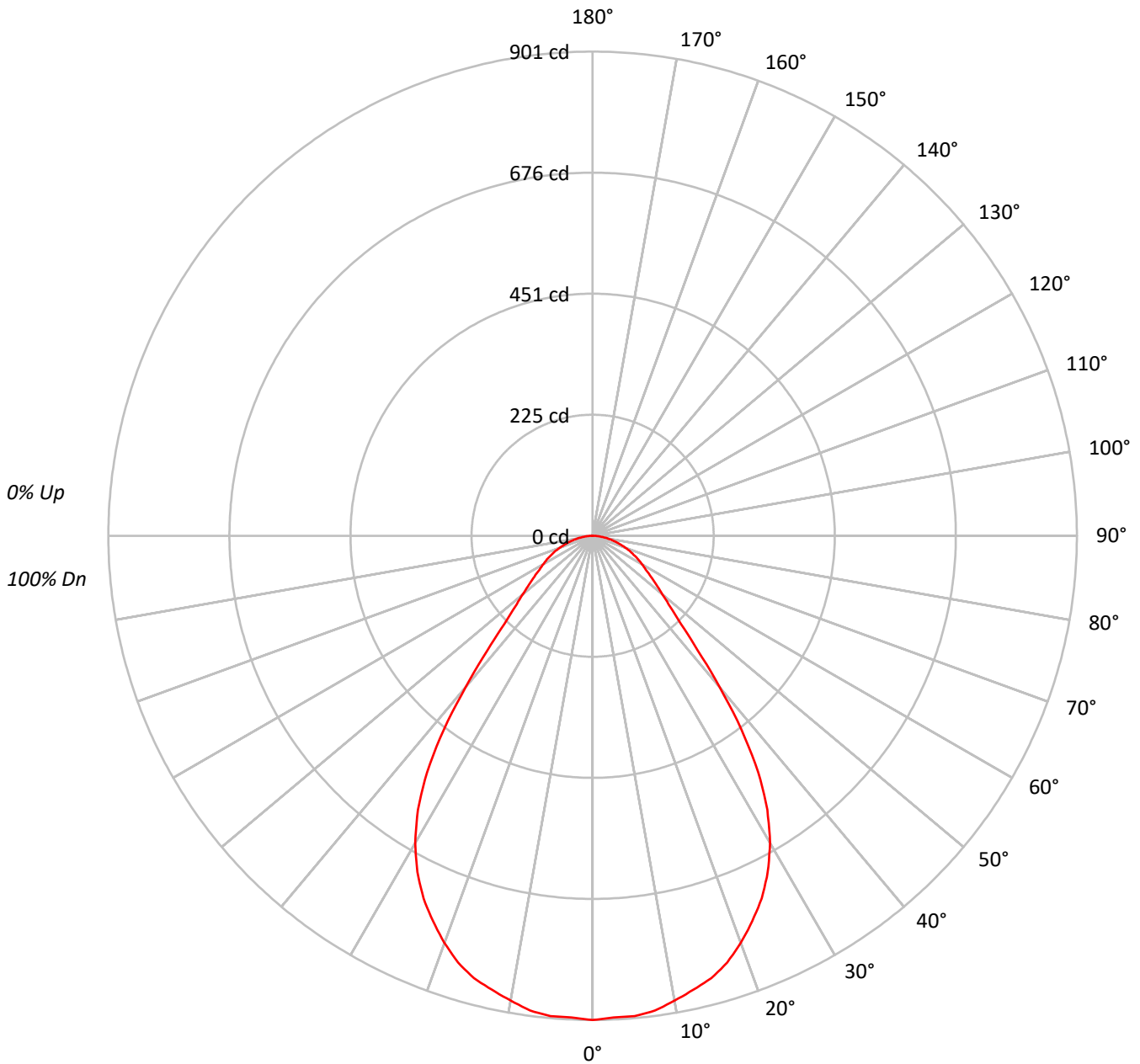
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49398
5°	49367
10°	48891
15°	48383
20°	47021
25°	45027
30°	41791
35°	35958
40°	26249
45°	17986
50°	14456
55°	12606
60°	11633
65°	11052
70°	10338
75°	9658
80°	8776
85°	7485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	5.9
10°-20°	239.4	16.5
20°-30°	340.5	23.5
30°-40°	327.8	22.6
40°-50°	188.6	13.0
50°-60°	119.5	8.3
60°-70°	84.6	5.8
70°-80°	48.2	3.3
80°-90°	13.8	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°	665.0	45.9
0°-40°	992.8	68.6
0°-60°	1301.0	89.9
0°-90°	1447.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	901	
5°	897	85
15°	852	239
25°	744	341
35°	537	328
45°	232	189
55°	132	120
65°	85	85
75°	46	48
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	901.1
2.5°	897.1
5°	897.1
7.5°	891.2
10°	878.3
12.5°	865.4
15°	852.5
17.5°	832.6
20°	806.0
22.5°	776.2
25°	744.4
27.5°	705.7
30°	660.2
32.5°	604.7
35°	537.3
37.5°	455.0
40°	366.8
42.5°	289.4
45°	232.0
47.5°	195.3
50°	169.5
52.5°	148.7
55°	131.9
57.5°	117.0
60°	106.1
62.5°	96.1
65°	85.2
67.5°	75.4
70°	64.5
72.5°	54.5
75°	45.6
77.5°	36.7
80°	27.8
82.5°	19.9
85°	11.9
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)