

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: P582607

Luminaire Tested: **HC645D010-HM64560835-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582607
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: HC645D010-HM64560835-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5026.6 lumens
Efficiency: N/A
Efficacy: 114.2 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

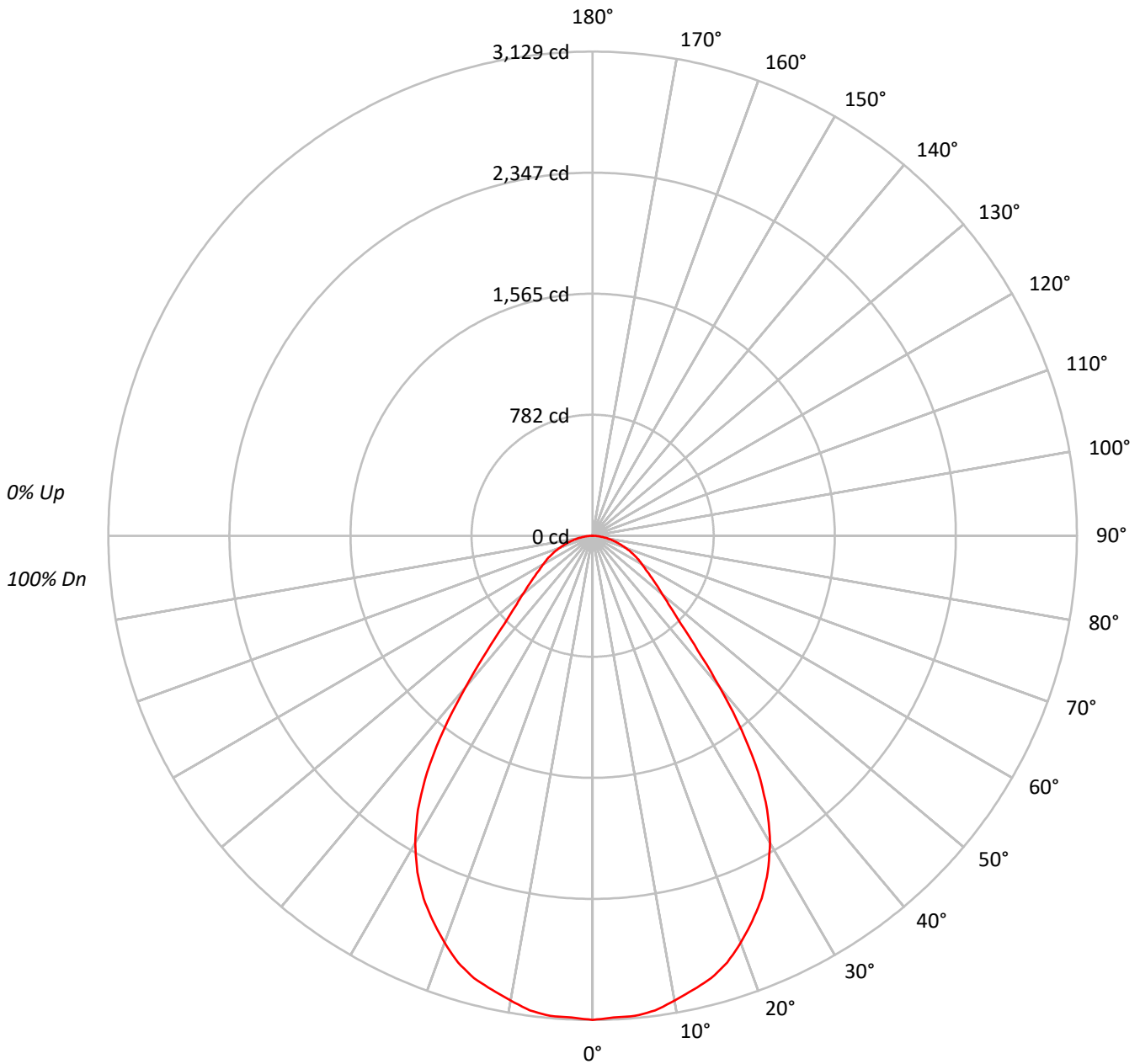
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	171532
5°	171434
10°	169770
15°	168009
20°	163260
25°	156372
30°	145117
35°	124858
40°	91142
45°	62448
50°	50199
55°	43755
60°	40381
65°	38409
70°	35855
75°	33551
80°	30433
85°	25977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	5.9
10°-20°	831.4	16.5
20°-30°	1182.4	23.5
30°-40°	1138.4	22.6
40°-50°	655.0	13.0
50°-60°	415.0	8.3
60°-70°	293.8	5.8
70°-80°	167.5	3.3
80°-90°	47.8	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°	2309.1	45.9
0°-40°	3447.5	68.6
0°-60°	4517.5	89.9
0°-90°	5026.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3129	
5°	3115	295
15°	2960	831
25°	2585	1182
35°	1866	1138
45°	806	655
55°	458	415
65°	296	294
75°	158	167
85°	41	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3129.0
2.5°	3115.3
5°	3115.3
7.5°	3094.6
10°	3049.8
12.5°	3005.1
15°	2960.3
17.5°	2891.4
20°	2798.5
22.5°	2695.3
25°	2585.2
27.5°	2450.9
30°	2292.5
32.5°	2099.8
35°	1865.7
37.5°	1580.0
40°	1273.6
42.5°	1005.1
45°	805.5
47.5°	678.1
50°	588.6
52.5°	516.4
55°	457.8
57.5°	406.2
60°	368.3
62.5°	334.0
65°	296.1
67.5°	261.6
70°	223.7
72.5°	189.3
75°	158.4
77.5°	127.4
80°	96.4
82.5°	68.9
85°	41.3
87.5°	17.2
90°	0.0



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— 0°-180°







(END OF REPORT)