

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: P593332

Luminaire Tested: **HC645D010-HM64560950-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560950-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4305.4 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

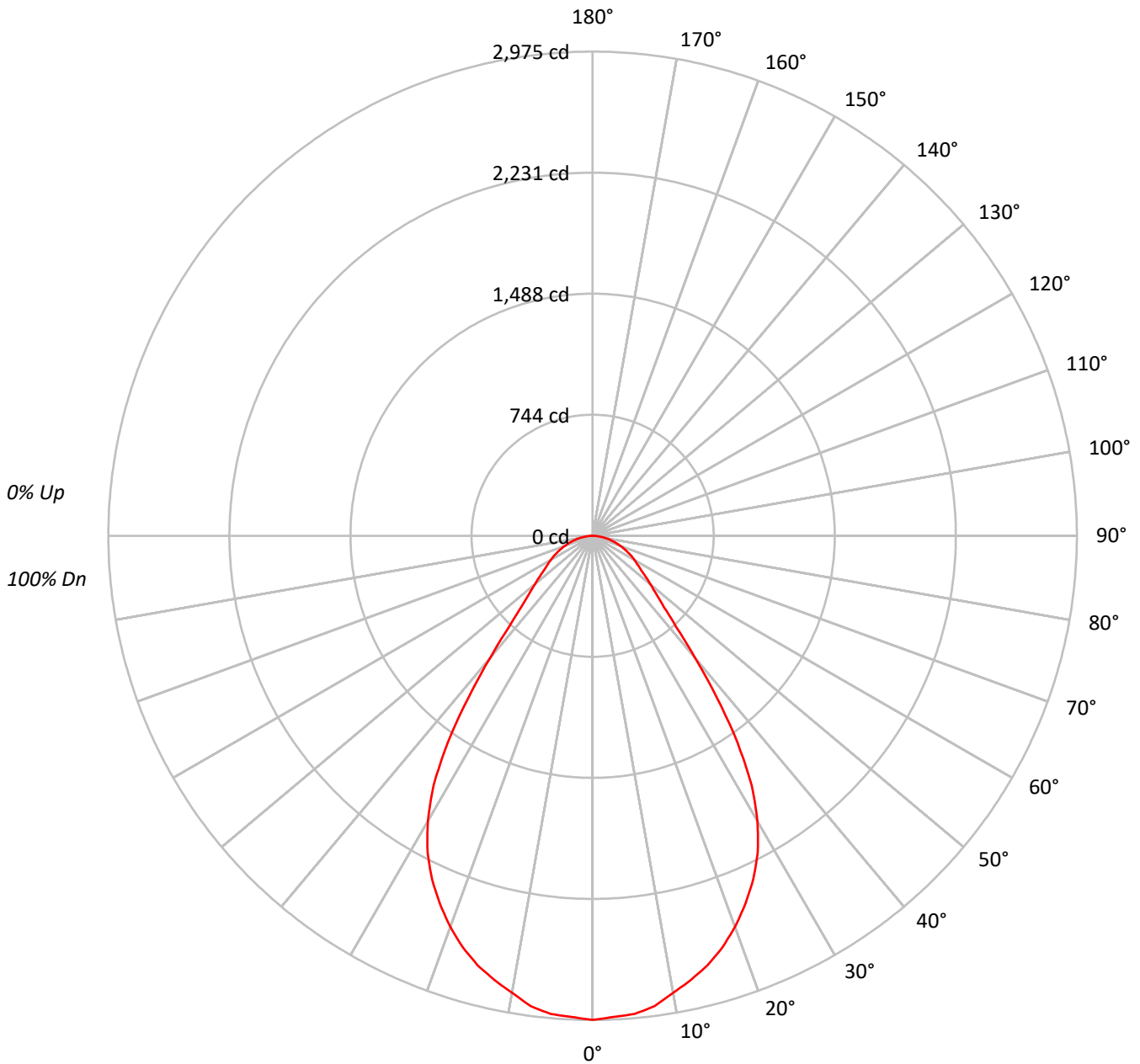
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	163068
5°	162299
10°	158714
15°	154995
20°	149165
25°	141075
30°	128203
35°	103771
40°	69974
45°	48090
50°	39402
55°	34474
60°	32618
65°	30782
70°	28915
75°	27472
80°	24972
85°	21889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	6.5
10°-20°	766.9	17.8
20°-30°	1065.5	24.7
30°-40°	948.7	22.0
40°-50°	503.6	11.7
50°-60°	329.3	7.6
60°-70°	236.0	5.5
70°-80°	136.9	3.2
80°-90°	40.0	0.9
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°	2110.8	49.0
0°-40°	3059.5	71.1
0°-60°	3892.4	90.4
0°-90°	4305.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2975	
5°	2949	278
15°	2731	767
25°	2332	1066
35°	1551	949
45°	620	504
55°	361	329
65°	237	236
75°	130	137
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2974.6
2.5°	2958.8
5°	2949.3
7.5°	2914.6
10°	2851.2
12.5°	2794.2
15°	2731.0
17.5°	2651.8
20°	2556.9
22.5°	2449.3
25°	2332.3
27.5°	2196.2
30°	2025.3
32.5°	1819.6
35°	1550.6
37.5°	1253.1
40°	977.8
42.5°	759.5
45°	620.3
47.5°	528.4
50°	462.0
52.5°	408.2
55°	360.7
57.5°	326.0
60°	297.5
62.5°	269.0
65°	237.3
67.5°	208.9
70°	180.4
72.5°	155.1
75°	129.7
77.5°	104.4
80°	79.1
82.5°	57.0
85°	34.8
87.5°	15.8
90°	0.0



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— 0°-180°







(END OF REPORT)