

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: P582582

Luminaire Tested: **HC645D010-HM64560830-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582582
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-HM64560830-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4484.6 lumens
Efficiency: N/A
Efficacy: 101.9 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

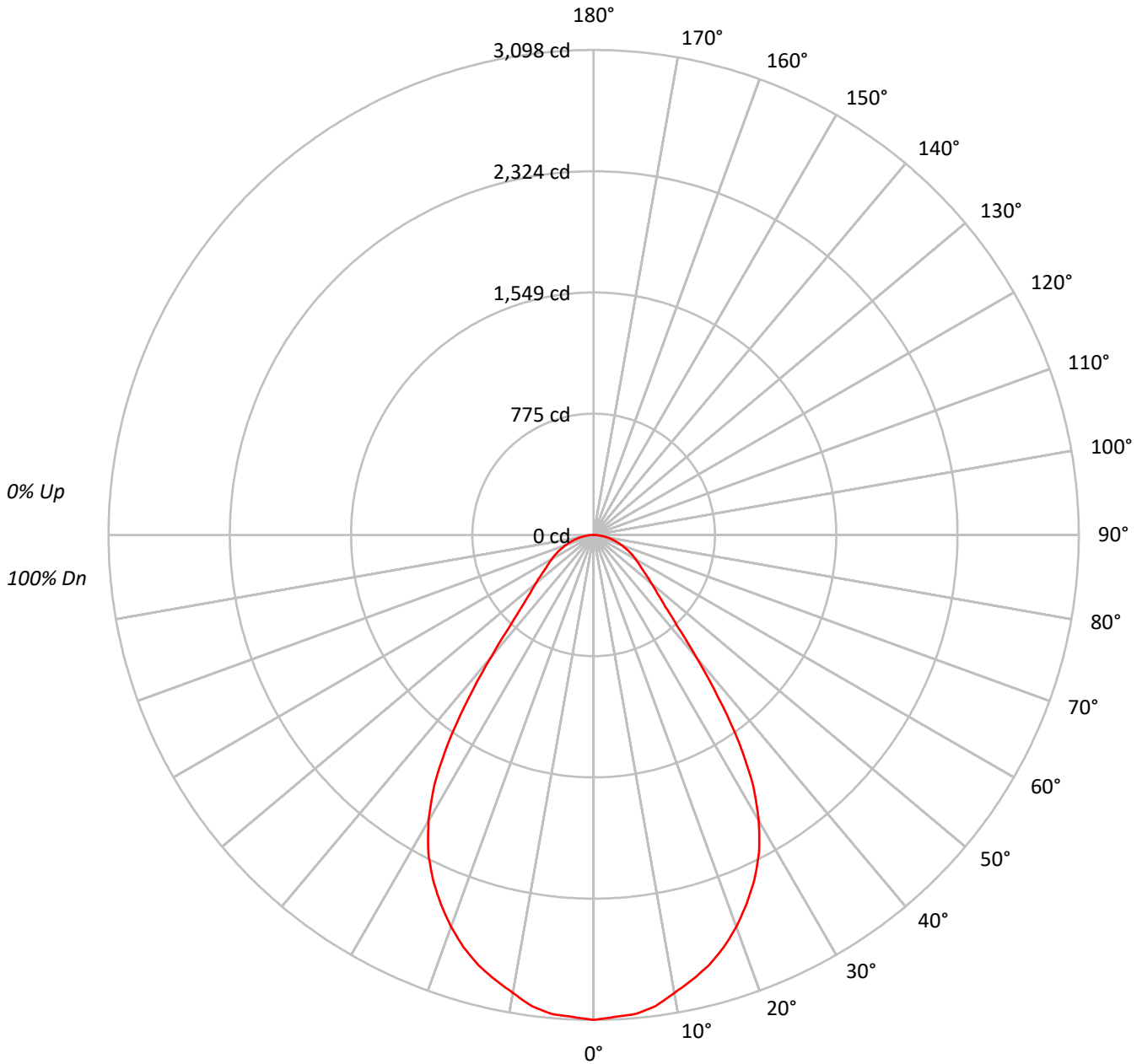
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	169855
5°	169051
10°	165316
15°	161442
20°	155373
25°	146942
30°	133533
35°	108087
40°	72887
45°	50090
50°	41048
55°	35908
60°	33967
65°	32079
70°	30117
75°	28615
80°	26045
85°	22769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	6.5
10°-20°	798.8	17.8
20°-30°	1109.8	24.7
30°-40°	988.1	22.0
40°-50°	524.6	11.7
50°-60°	343.0	7.6
60°-70°	245.9	5.5
70°-80°	142.5	3.2
80°-90°	41.7	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°	2198.7	49.0
0°-40°	3186.8	71.1
0°-60°	4054.4	90.4
0°-90°	4484.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4484.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3098	
5°	3072	290
15°	2845	799
25°	2429	1110
35°	1615	988
45°	646	525
55°	376	343
65°	247	246
75°	135	143
85°	36	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3098.4
2.5°	3081.9
5°	3072.0
7.5°	3035.7
10°	2969.8
12.5°	2910.6
15°	2844.6
17.5°	2762.2
20°	2663.3
22.5°	2551.3
25°	2429.3
27.5°	2287.6
30°	2109.5
32.5°	1895.3
35°	1615.1
37.5°	1305.3
40°	1018.5
42.5°	791.1
45°	646.1
47.5°	550.5
50°	481.3
52.5°	425.2
55°	375.7
57.5°	339.5
60°	309.8
62.5°	280.2
65°	247.3
67.5°	217.6
70°	187.9
72.5°	161.5
75°	135.1
77.5°	108.7
80°	82.5
82.5°	59.4
85°	36.2
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)