

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: P582565

Luminaire Tested: **HC645D010-HM64560827-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560827-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4320.4 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

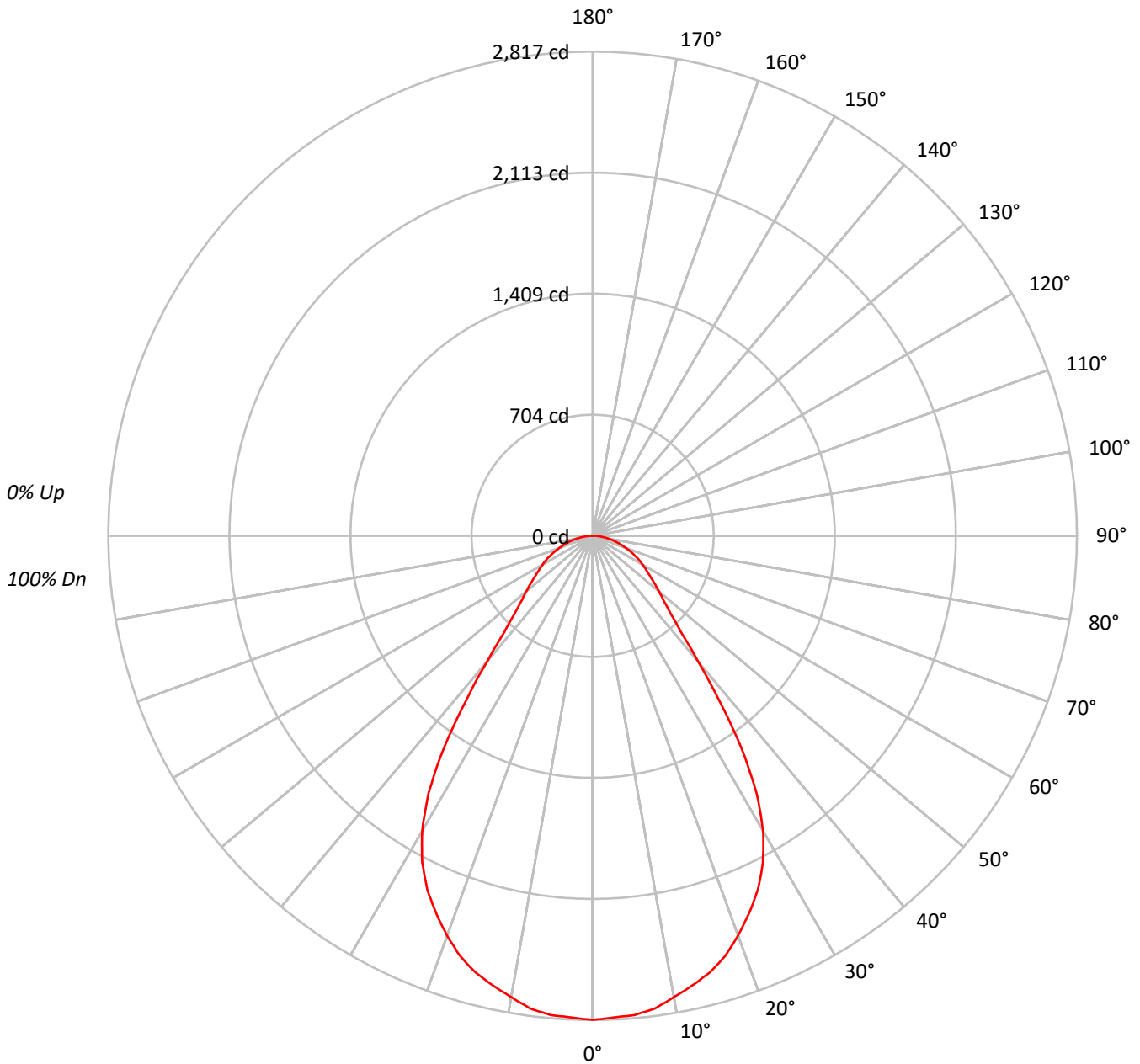
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	154417
5°	154000
10°	151706
15°	149303
20°	144388
25°	137524
30°	125570
35°	101101
40°	68135
45°	49687
50°	42950
55°	38794
60°	36806
65°	34842
70°	32778
75°	31030
80°	28918
85°	26858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.9	6.1
10°-20°	738.8	17.1
20°-30°	1037.9	24.0
30°-40°	923.9	21.4
40°-50°	516.3	12.0
50°-60°	367.9	8.5
60°-70°	267.6	6.2
70°-80°	155.0	3.6
80°-90°	48.1	1.1
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°	2041.5	47.3
0°-40°	2965.5	68.6
0°-60°	3849.6	89.1
0°-90°	4320.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2817	
5°	2798	265
15°	2631	739
25°	2274	1038
35°	1511	924
45°	641	516
55°	406	368
65°	269	268
75°	146	155
85°	43	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2816.8
2.5°	2804.6
5°	2798.5
7.5°	2774.1
10°	2725.3
12.5°	2679.5
15°	2630.7
17.5°	2563.6
20°	2475.0
22.5°	2377.4
25°	2273.6
27.5°	2145.4
30°	1983.7
32.5°	1776.2
35°	1510.7
37.5°	1211.6
40°	952.1
42.5°	759.9
45°	640.9
47.5°	561.5
50°	503.6
52.5°	451.7
55°	405.9
57.5°	369.3
60°	335.7
62.5°	305.2
65°	268.6
67.5°	238.0
70°	204.5
72.5°	174.0
75°	146.5
77.5°	119.1
80°	91.6
82.5°	67.1
85°	42.7
87.5°	21.3
90°	0.0



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— 0°-180°







(END OF REPORT)