

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: P593224

Luminaire Tested: **HC630D010-HM63040950-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593224
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: HC630D010-HM63040950-61NDW
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: 2842.1 lumens
Efficiency: N/A
Efficacy: 101.5 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

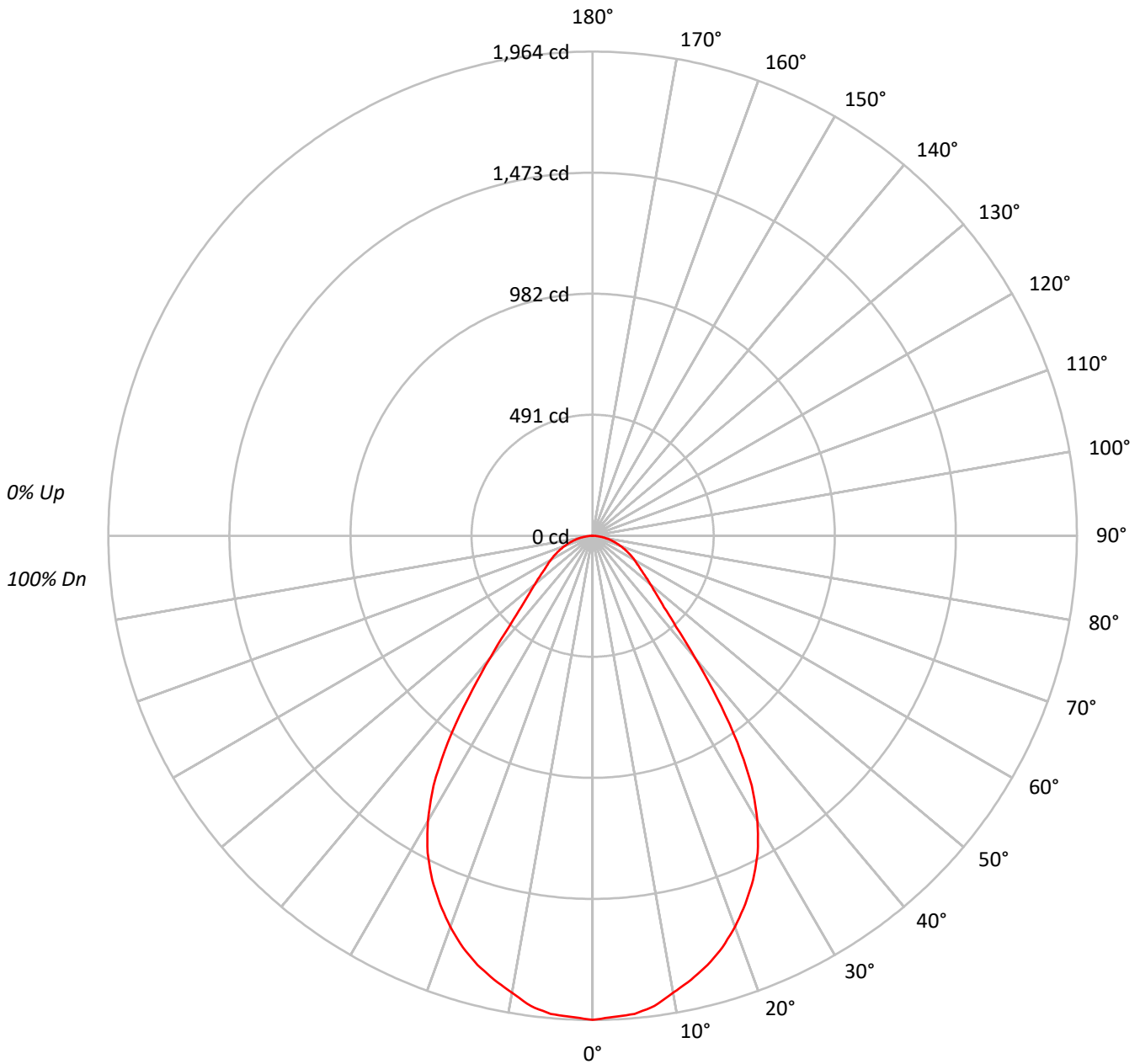
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	107645
5°	107143
10°	104774
15°	102316
20°	98469
25°	93126
30°	84627
35°	68502
40°	46194
45°	31747
50°	26012
55°	22766
60°	21533
65°	20326
70°	19074
75°	18131
80°	16479
85°	14404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	6.5
10°-20°	506.3	17.8
20°-30°	703.4	24.7
30°-40°	626.2	22.0
40°-50°	332.5	11.7
50°-60°	217.4	7.6
60°-70°	155.8	5.5
70°-80°	90.4	3.2
80°-90°	26.4	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°	1393.4	49.0
0°-40°	2019.7	71.1
0°-60°	2569.5	90.4
0°-90°	2842.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1964	
5°	1947	184
15°	1803	506
25°	1540	703
35°	1024	626
45°	410	332
55°	238	217
65°	157	156
75°	86	90
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1963.6
2.5°	1953.2
5°	1947.0
7.5°	1923.9
10°	1882.2
12.5°	1844.6
15°	1802.8
17.5°	1750.6
20°	1687.9
22.5°	1616.9
25°	1539.6
27.5°	1449.7
30°	1336.9
32.5°	1201.1
35°	1023.6
37.5°	827.2
40°	645.5
42.5°	501.4
45°	409.5
47.5°	348.9
50°	305.0
52.5°	269.4
55°	238.2
57.5°	215.2
60°	196.4
62.5°	177.5
65°	156.7
67.5°	137.9
70°	119.0
72.5°	102.4
75°	85.6
77.5°	69.0
80°	52.2
82.5°	37.6
85°	22.9
87.5°	10.5
90°	0.0



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— 0°-180°







(END OF REPORT)