

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: P593218

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040950-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088.5 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

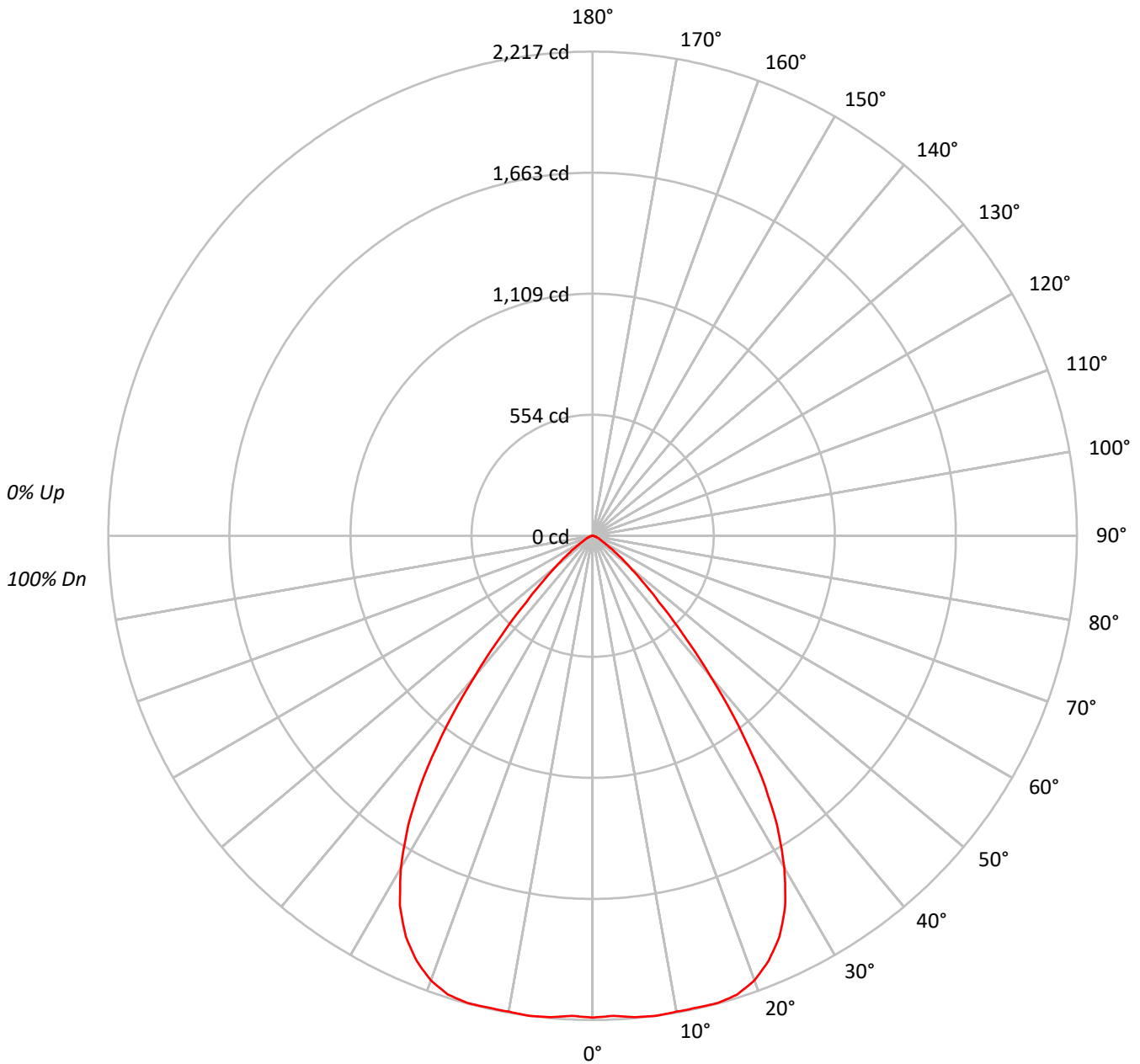
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	120955
5°	121764
10°	123172
15°	125704
20°	126402
25°	122463
30°	111099
35°	90333
40°	59962
45°	33368
50°	18712
55°	10389
60°	5723
65°	4333
70°	3013
75°	2224
80°	1326
85°	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	6.8
10°-20°	624.5	20.2
20°-30°	920.4	29.8
30°-40°	823.3	26.7
40°-50°	357.2	11.6
50°-60°	104.9	3.4
60°-70°	33.5	1.1
70°-80°	11.8	0.4
80°-90°	1.7	0.1
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°	1756.1	56.9
0°-40°	2579.4	83.5
0°-60°	3041.5	98.5
0°-90°	3088.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2206	
5°	2213	211
15°	2215	624
25°	2025	920
35°	1350	823
45°	430	357
55°	109	105
65°	33	33
75°	10	12
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2206.4
2.5°	2200.1
5°	2212.7
7.5°	2216.9
10°	2212.7
12.5°	2212.7
15°	2214.9
17.5°	2202.3
20°	2166.7
22.5°	2106.2
25°	2024.6
27.5°	1909.8
30°	1755.1
32.5°	1571.3
35°	1349.8
37.5°	1097.0
40°	837.9
42.5°	612.2
45°	430.4
47.5°	307.1
50°	219.4
52.5°	156.7
55°	108.7
57.5°	73.1
60°	52.2
62.5°	41.7
65°	33.4
67.5°	25.1
70°	18.8
72.5°	14.6
75°	10.5
77.5°	8.3
80°	4.2
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)