

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: P582129

Luminaire Tested: **HC630D010-HM63040827-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2827.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

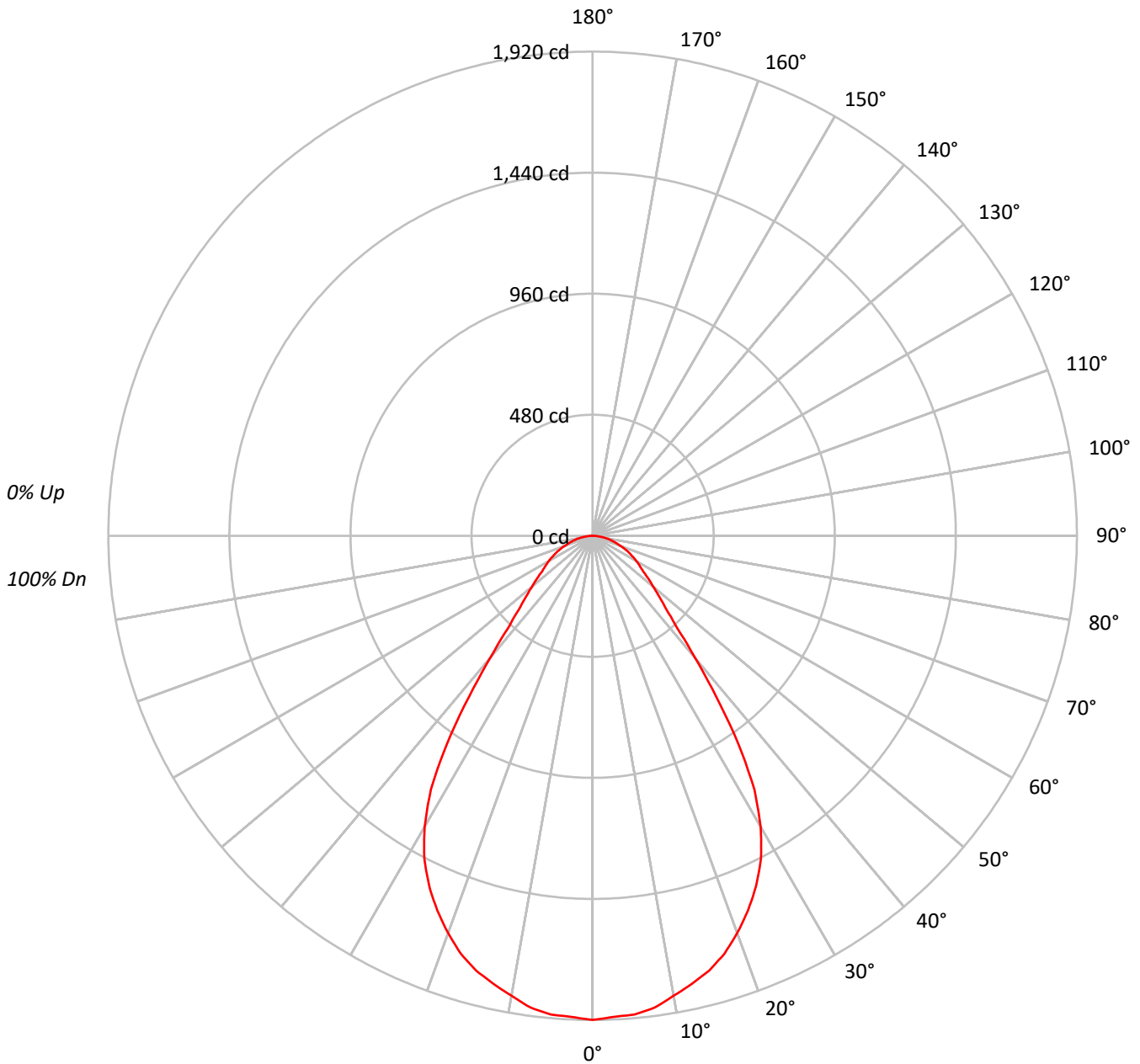
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	82	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105244
5°	104859
10°	103104
15°	101289
20°	97793
25°	92727
30°	84342
35°	67392
40°	44970
45°	32050
50°	26711
55°	23273
60°	21994
65°	20716
70°	19026
75°	17771
80°	16132
85°	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	6.4
10°-20°	501.1	17.7
20°-30°	700.3	24.8
30°-40°	616.9	21.8
40°-50°	333.3	11.8
50°-60°	222.8	7.9
60°-70°	158.0	5.6
70°-80°	88.7	3.1
80°-90°	25.9	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°	1381.6	48.9
0°-40°	1998.5	70.7
0°-60°	2554.5	90.4
0°-90°	2827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1920	
5°	1906	180
15°	1785	501
25°	1533	700
35°	1007	617
45°	413	333
55°	244	223
65°	160	158
75°	84	89
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1919.8
2.5°	1909.5
5°	1905.5
7.5°	1887.1
10°	1852.2
12.5°	1819.5
15°	1784.7
17.5°	1737.6
20°	1676.3
22.5°	1608.7
25°	1533.0
27.5°	1445.0
30°	1332.4
32.5°	1193.3
35°	1007.0
37.5°	804.4
40°	628.4
42.5°	495.3
45°	413.4
47.5°	358.1
50°	313.2
52.5°	276.3
55°	243.5
57.5°	221.0
60°	200.6
62.5°	180.1
65°	159.7
67.5°	139.2
70°	118.7
72.5°	100.2
75°	83.9
77.5°	67.5
80°	51.1
82.5°	36.9
85°	22.5
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)