

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: P593223

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593223
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-HM63040950-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883.9 lumens
Efficiency: N/A
Efficacy: 103.0 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

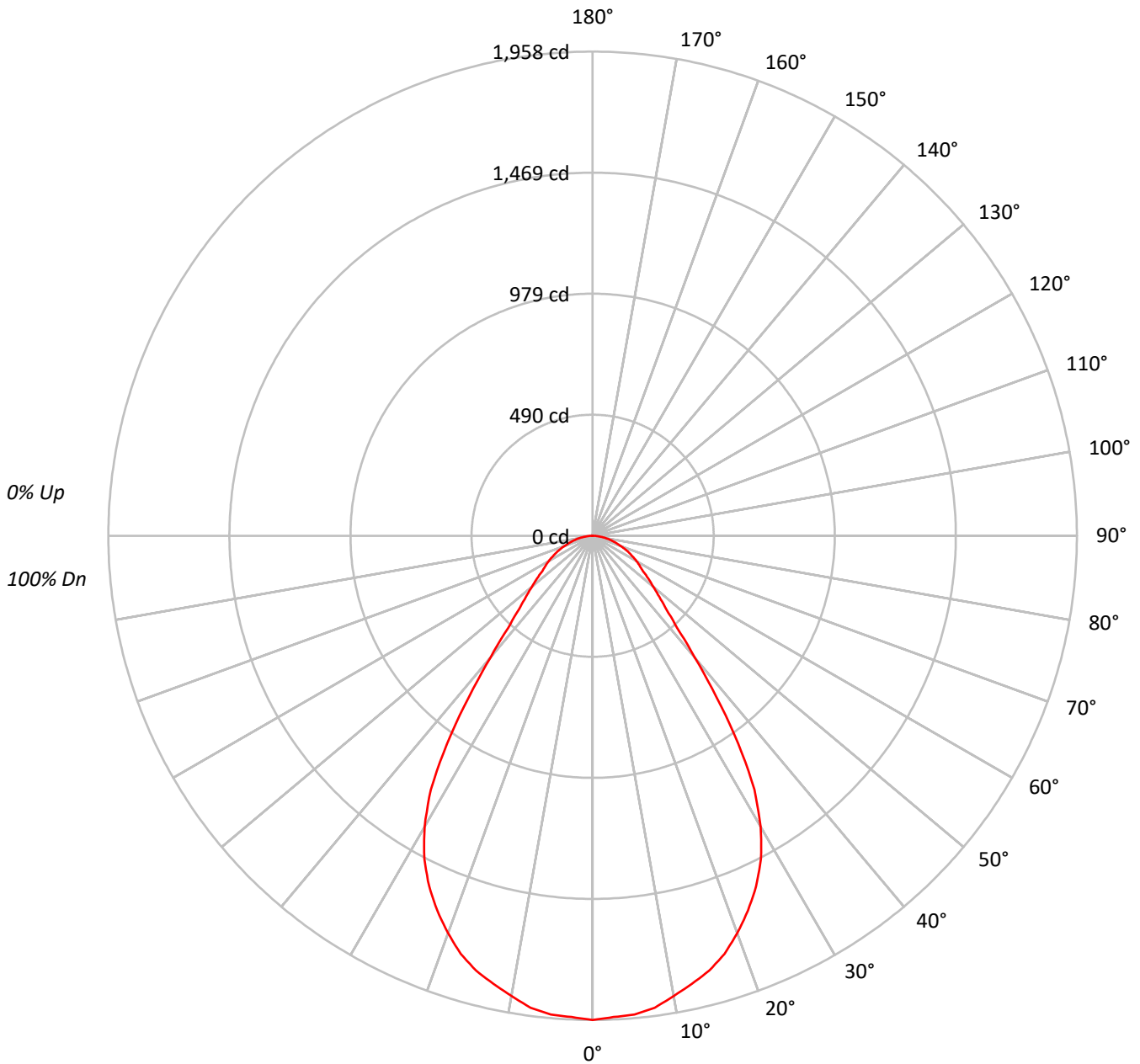
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	107354
5°	106961
10°	105175
15°	103321
20°	99753
25°	94590
30°	86032
35°	68743
40°	45872
45°	32693
50°	27249
55°	23751
60°	22432
65°	21131
70°	19394
75°	18131
80°	16479
85°	14404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	6.4
10°-20°	511.2	17.7
20°-30°	714.3	24.8
30°-40°	629.2	21.8
40°-50°	340.0	11.8
50°-60°	227.3	7.9
60°-70°	161.1	5.6
70°-80°	90.5	3.1
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°	1409.3	48.9
0°-40°	2038.6	70.7
0°-60°	2605.8	90.4
0°-90°	2883.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1958	
5°	1944	184
15°	1820	511
25°	1564	714
35°	1027	629
45°	422	340
55°	248	227
65°	163	161
75°	86	91
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1958.3
2.5°	1947.9
5°	1943.7
7.5°	1924.9
10°	1889.4
12.5°	1856.0
15°	1820.5
17.5°	1772.6
20°	1709.9
22.5°	1640.9
25°	1563.8
27.5°	1474.0
30°	1359.1
32.5°	1217.2
35°	1027.2
37.5°	820.5
40°	641.0
42.5°	505.2
45°	421.7
47.5°	365.4
50°	319.5
52.5°	281.8
55°	248.5
57.5°	225.4
60°	204.6
62.5°	183.7
65°	162.9
67.5°	142.0
70°	121.0
72.5°	102.3
75°	85.6
77.5°	68.8
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)