

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: P593225

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593225
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: HC630D010-HM63040950-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2956.9 lumens
Efficiency: N/A
Efficacy: 105.6 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

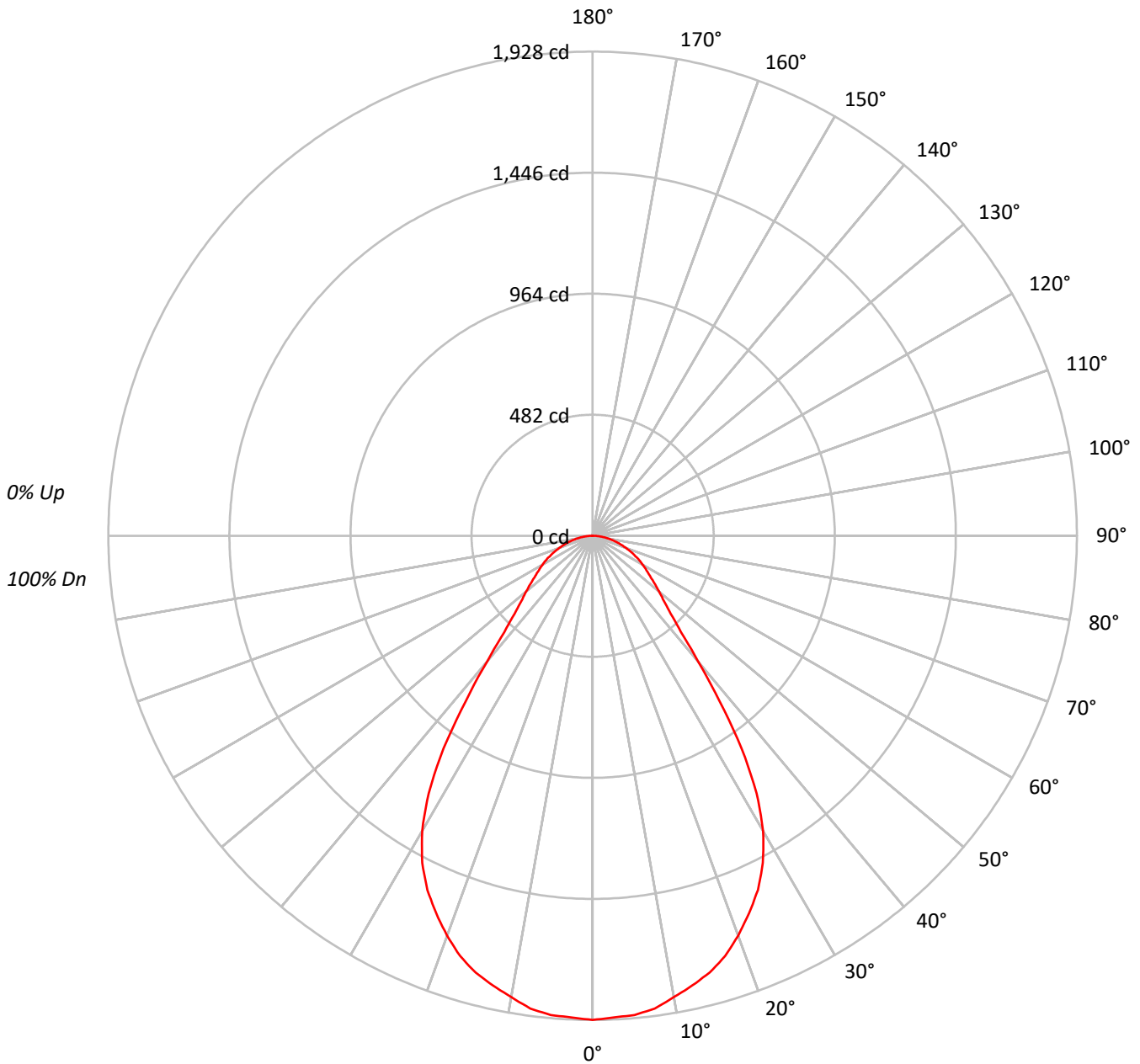
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105693
5°	105404
10°	103834
15°	102186
20°	98825
25°	94130
30°	85944
35°	69198
40°	46637
45°	34004
50°	29398
55°	26551
60°	25184
65°	23842
70°	22424
75°	21223
80°	19794
85°	18367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	6.1
10°-20°	505.6	17.1
20°-30°	710.4	24.0
30°-40°	632.3	21.4
40°-50°	353.4	12.0
50°-60°	251.8	8.5
60°-70°	183.2	6.2
70°-80°	106.0	3.6
80°-90°	32.9	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°	1397.3	47.3
0°-40°	2029.6	68.6
0°-60°	2634.8	89.1
0°-90°	2956.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1928	
5°	1915	181
15°	1800	506
25°	1556	710
35°	1034	632
45°	439	353
55°	278	252
65°	184	183
75°	100	106
85°	29	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1928.0
2.5°	1919.5
5°	1915.4
7.5°	1898.7
10°	1865.3
12.5°	1833.9
15°	1800.5
17.5°	1754.6
20°	1694.0
22.5°	1627.1
25°	1556.2
27.5°	1468.4
30°	1357.7
32.5°	1215.6
35°	1034.0
37.5°	829.2
40°	651.7
42.5°	520.1
45°	438.6
47.5°	384.3
50°	344.7
52.5°	309.1
55°	277.8
57.5°	252.8
60°	229.7
62.5°	208.9
65°	183.8
67.5°	162.9
70°	139.9
72.5°	119.0
75°	100.2
77.5°	81.4
80°	62.7
82.5°	45.9
85°	29.2
87.5°	14.6
90°	0.0



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— 0°-180°







(END OF REPORT)