

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: P582157

Luminaire Tested: **HC630D010-HM63040830-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040830-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3206.5 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

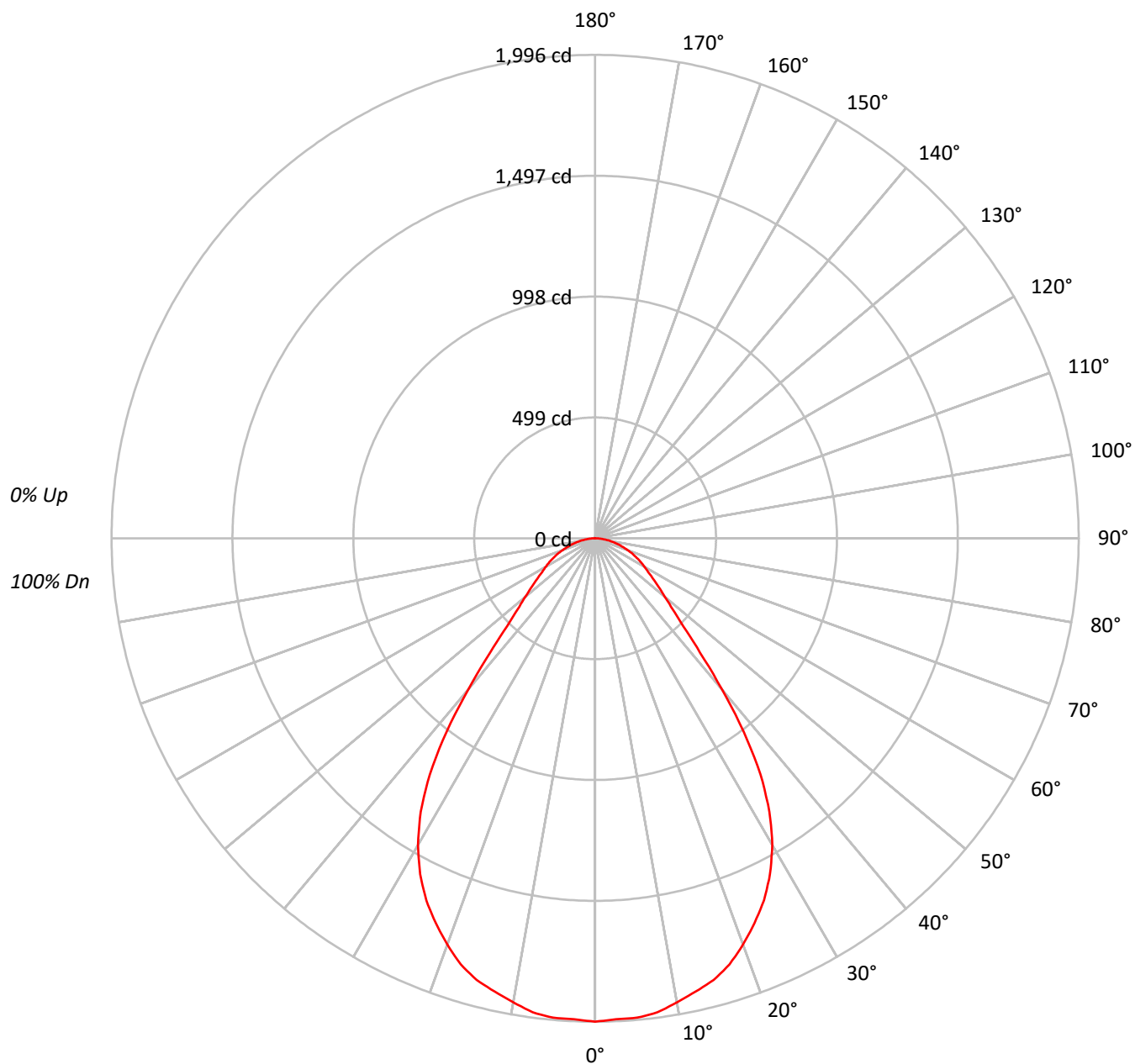
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	109421
5°	109360
10°	108303
15°	107180
20°	104152
25°	99750
30°	92578
35°	79652
40°	58137
45°	39841
50°	32025
55°	27908
60°	25755
65°	24490
70°	22872
75°	21414
80°	19415
85°	16605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	5.9
10°-20°	530.4	16.5
20°-30°	754.3	23.5
30°-40°	726.2	22.6
40°-50°	417.8	13.0
50°-60°	264.7	8.3
60°-70°	187.4	5.8
70°-80°	106.9	3.3
80°-90°	30.5	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°	1473.0	45.9
0°-40°	2199.2	68.6
0°-60°	2881.8	89.9
0°-90°	3206.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3206.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1996	
5°	1987	188
15°	1888	530
25°	1649	754
35°	1190	726
45°	514	418
55°	292	265
65°	189	187
75°	101	107
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1996.0
2.5°	1987.3
5°	1987.3
7.5°	1974.1
10°	1945.6
12.5°	1917.0
15°	1888.5
17.5°	1844.5
20°	1785.3
22.5°	1719.3
25°	1649.1
27.5°	1563.4
30°	1462.5
32.5°	1339.5
35°	1190.2
37.5°	1007.9
40°	812.4
42.5°	641.2
45°	513.9
47.5°	432.6
50°	375.5
52.5°	329.4
55°	292.0
57.5°	259.1
60°	234.9
62.5°	212.9
65°	188.8
67.5°	166.9
70°	142.7
72.5°	120.8
75°	101.1
77.5°	81.2
80°	61.5
82.5°	43.9
85°	26.4
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)