

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: P582211

Luminaire Tested: **HC630D010-HM63040927-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582211
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-HM63040927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2523.7 lumens
Efficiency: N/A
Efficacy: 90.1 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

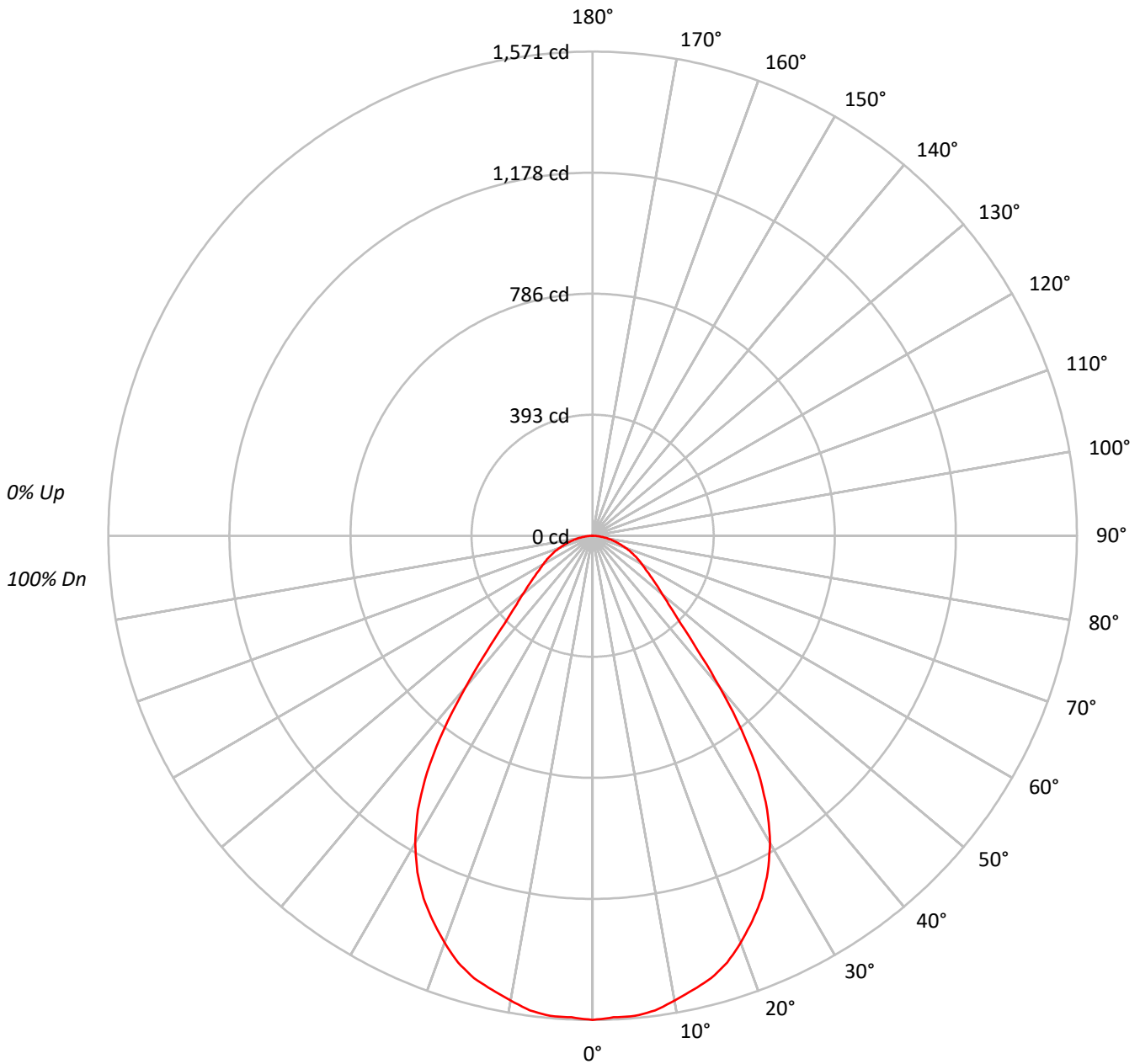
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
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	61	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°	86122
5°	86066
10°	85236
15°	84348
20°	81965
25°	78507
30°	72866
35°	62687
40°	45757
45°	31352
50°	25210
55°	21963
60°	20272
65°	19276
70°	18016
75°	16839
80°	15280
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	5.9
10°-20°	417.4	16.5
20°-30°	593.7	23.5
30°-40°	571.6	22.6
40°-50°	328.8	13.0
50°-60°	208.3	8.3
60°-70°	147.5	5.8
70°-80°	84.1	3.3
80°-90°	24.0	1.0
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°	1159.3	45.9
0°-40°	1730.9	68.6
0°-60°	2268.1	89.9
0°-90°	2523.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2523.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1571	
5°	1564	148
15°	1486	417
25°	1298	594
35°	937	572
45°	404	329
55°	230	208
65°	149	148
75°	80	84
85°	21	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1571.0
2.5°	1564.0
5°	1564.0
7.5°	1553.7
10°	1531.2
12.5°	1508.7
15°	1486.2
17.5°	1451.8
20°	1405.0
22.5°	1353.2
25°	1297.9
27.5°	1230.5
30°	1151.1
32.5°	1054.3
35°	936.7
37.5°	793.3
40°	639.4
42.5°	504.6
45°	404.4
47.5°	340.4
50°	295.6
52.5°	259.2
55°	229.8
57.5°	203.9
60°	184.9
62.5°	167.6
65°	148.6
67.5°	131.4
70°	112.4
72.5°	95.0
75°	79.5
77.5°	64.0
80°	48.4
82.5°	34.6
85°	20.7
87.5°	8.7
90°	0.0



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— 0°-180°







(END OF REPORT)