

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: P582138

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040827-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.7 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

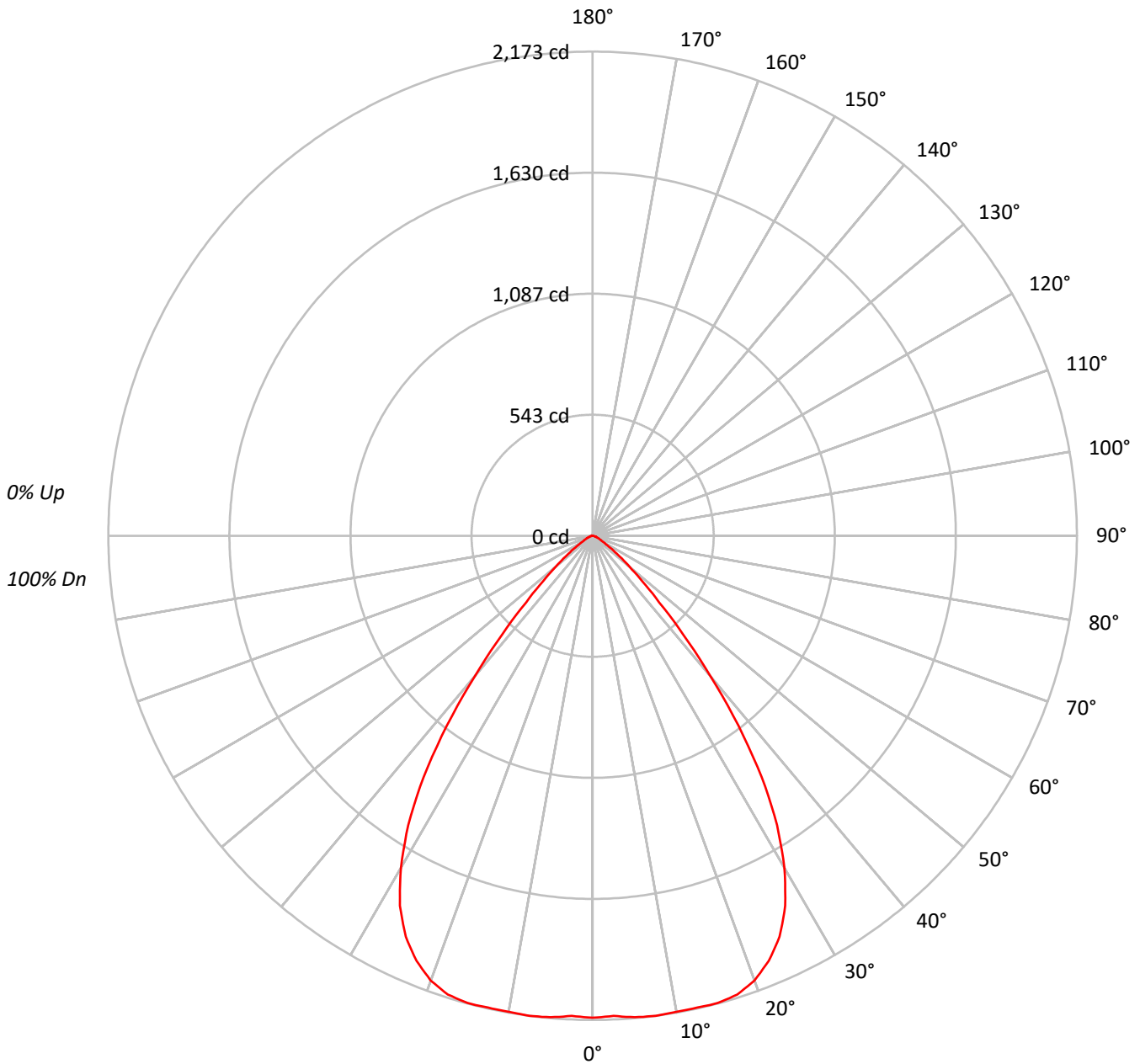
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92			
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77			
4	94	86	79	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59			
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54			
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50			
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118576
5°	119370
10°	120750
15°	123224
20°	123917
25°	120055
30°	108915
35°	88553
40°	58782
45°	32717
50°	18345
55°	10179
60°	5614
65°	4255
70°	2949
75°	2160
80°	1263
85°	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	6.8
10°-20°	612.2	20.2
20°-30°	902.3	29.8
30°-40°	807.0	26.7
40°-50°	350.2	11.6
50°-60°	102.9	3.4
60°-70°	32.8	1.1
70°-80°	11.6	0.4
80°-90°	1.6	0.1
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°	1721.6	56.9
0°-40°	2528.6	83.5
0°-60°	2981.7	98.5
0°-90°	3027.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2163	
5°	2169	207
15°	2171	612
25°	1985	902
35°	1323	807
45°	422	350
55°	106	103
65°	33	33
75°	10	12
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2163.0
2.5°	2157.0
5°	2169.2
7.5°	2173.3
10°	2169.2
12.5°	2169.2
15°	2171.2
17.5°	2159.0
20°	2124.1
22.5°	2064.7
25°	1984.8
27.5°	1872.2
30°	1720.6
32.5°	1540.3
35°	1323.2
37.5°	1075.3
40°	821.4
42.5°	600.2
45°	422.0
47.5°	301.1
50°	215.1
52.5°	153.6
55°	106.5
57.5°	71.7
60°	51.2
62.5°	41.0
65°	32.8
67.5°	24.6
70°	18.4
72.5°	14.4
75°	10.2
77.5°	8.2
80°	4.0
82.5°	2.0
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)