

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: P582209

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040927-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2788.2 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

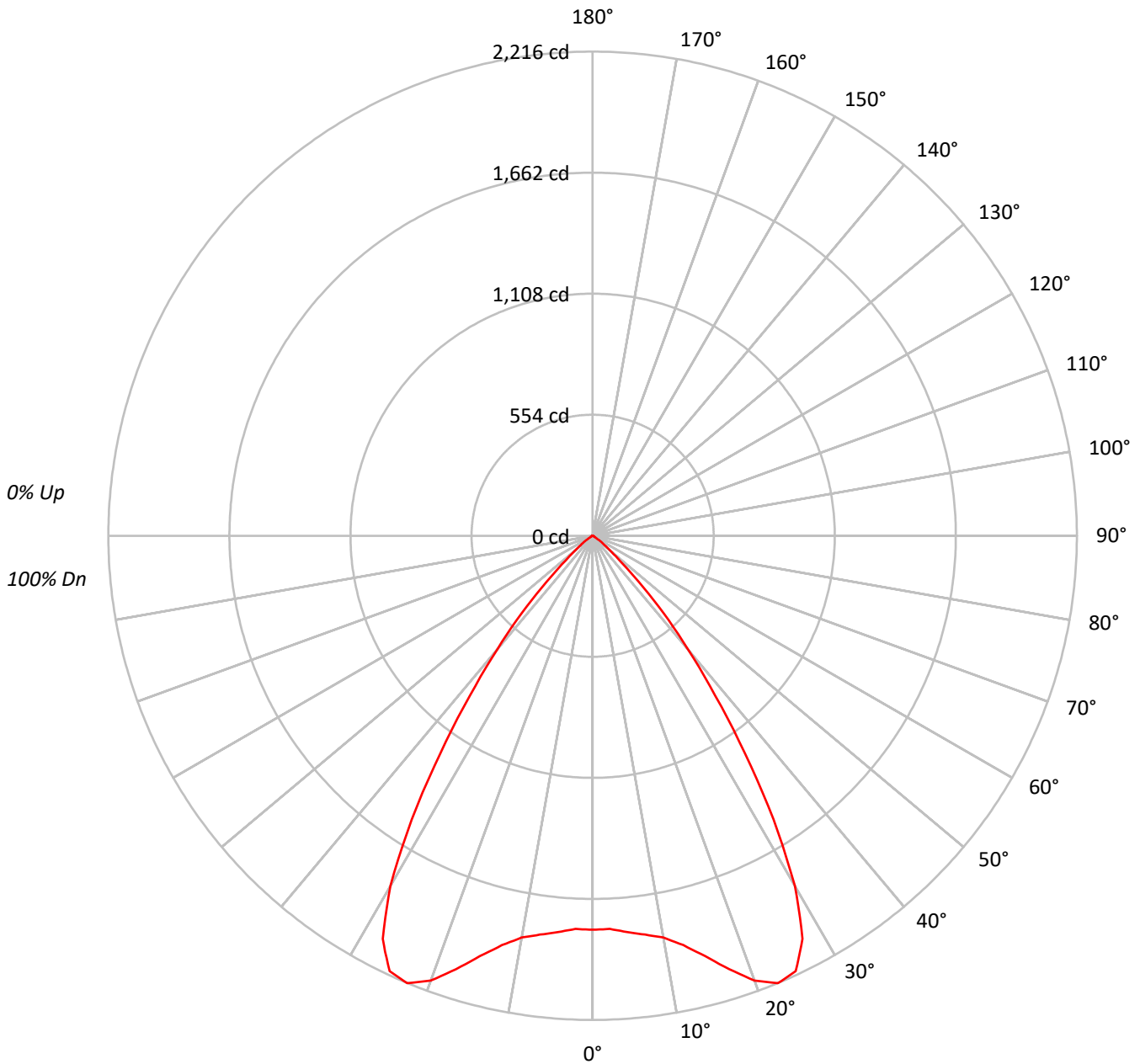
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98846
5°	100176
10°	103934
15°	113031
20°	126367
25°	133006
30°	117088
35°	81218
40°	48498
45°	23057
50°	8699
55°	3632
60°	1129
65°	895
70°	545
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	6.3
10°-20°	571.9	20.5
20°-30°	979.9	35.1
30°-40°	761.0	27.3
40°-50°	251.6	9.0
50°-60°	38.6	1.4
60°-70°	6.8	0.2
70°-80°	2.5	0.1
80°-90°	0.7	0.0
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°	1726.9	61.9
0°-40°	2488.0	89.2
0°-60°	2778.1	99.6
0°-90°	2788.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1803	
5°	1820	175
15°	1992	572
25°	2199	980
35°	1214	761
45°	297	252
55°	38	39
65°	7	7
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1803.1
2.5°	1801.3
5°	1820.4
7.5°	1841.2
10°	1867.1
12.5°	1918.9
15°	1991.6
17.5°	2079.7
20°	2166.1
22.5°	2216.3
25°	2198.9
27.5°	2079.7
30°	1849.7
32.5°	1540.3
35°	1213.6
37.5°	921.5
40°	677.7
42.5°	478.8
45°	297.4
47.5°	166.0
50°	102.0
52.5°	62.2
55°	38.0
57.5°	19.0
60°	10.3
62.5°	8.7
65°	6.9
67.5°	5.2
70°	3.4
72.5°	3.4
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)