

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: P582221

Luminaire Tested: **HC630D010-HM63040930-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040930-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2997.9 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

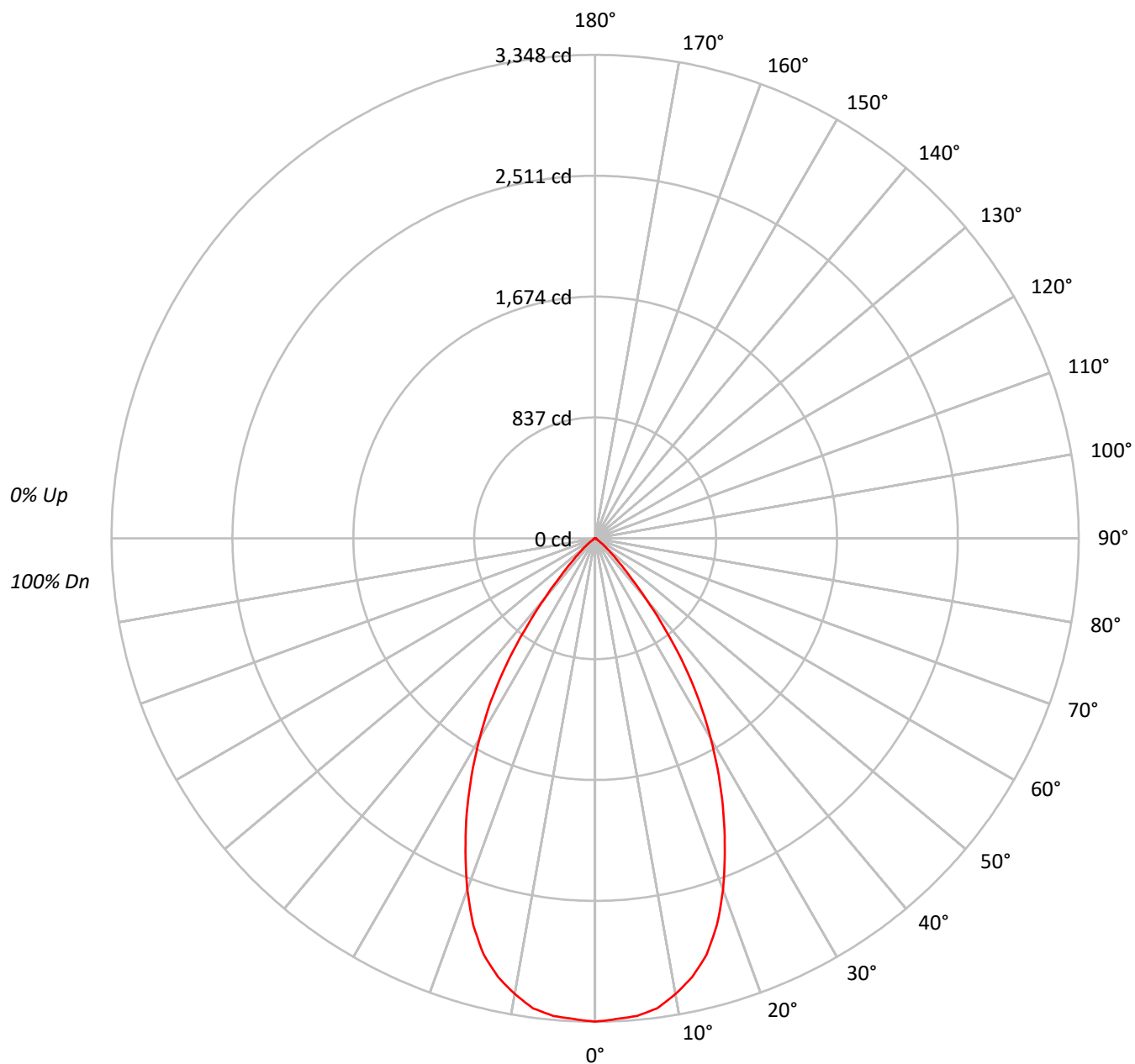
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	70	64	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	56	64	59	55		63	59	55		62
10	72	62	56	52	71	62	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183516
5°	182742
10°	178420
15°	169365
20°	150956
25°	127169
30°	101313
35°	72284
40°	38866
45°	16645
50°	7573
55°	2762
60°	1360
65°	1064
70°	994
75°	424
80°	631
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	10.5
10°-20°	827.2	27.6
20°-30°	958.1	32.0
30°-40°	662.5	22.1
40°-50°	191.3	6.4
50°-60°	32.9	1.1
60°-70°	8.4	0.3
70°-80°	3.2	0.1
80°-90°	0.8	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°	2098.7	70.0
0°-40°	2761.2	92.1
0°-60°	2985.4	99.6
0°-90°	2997.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3348	
5°	3321	313
15°	2984	827
25°	2102	958
35°	1080	662
45°	215	191
55°	29	33
65°	8	8
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3347.6
2.5°	3333.1
5°	3320.8
7.5°	3283.7
10°	3205.2
12.5°	3110.2
15°	2984.2
17.5°	2806.5
20°	2587.6
22.5°	2346.0
25°	2102.4
27.5°	1852.5
30°	1600.5
32.5°	1348.6
35°	1080.1
37.5°	801.3
40°	543.1
42.5°	342.8
45°	214.7
47.5°	138.4
50°	88.8
52.5°	53.7
55°	28.9
57.5°	16.5
60°	12.4
62.5°	10.3
65°	8.2
67.5°	6.2
70°	6.2
72.5°	4.2
75°	2.0
77.5°	2.0
80°	2.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)