

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: P582165

Luminaire Tested: **HC630D010-HM63040835-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3147.5 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

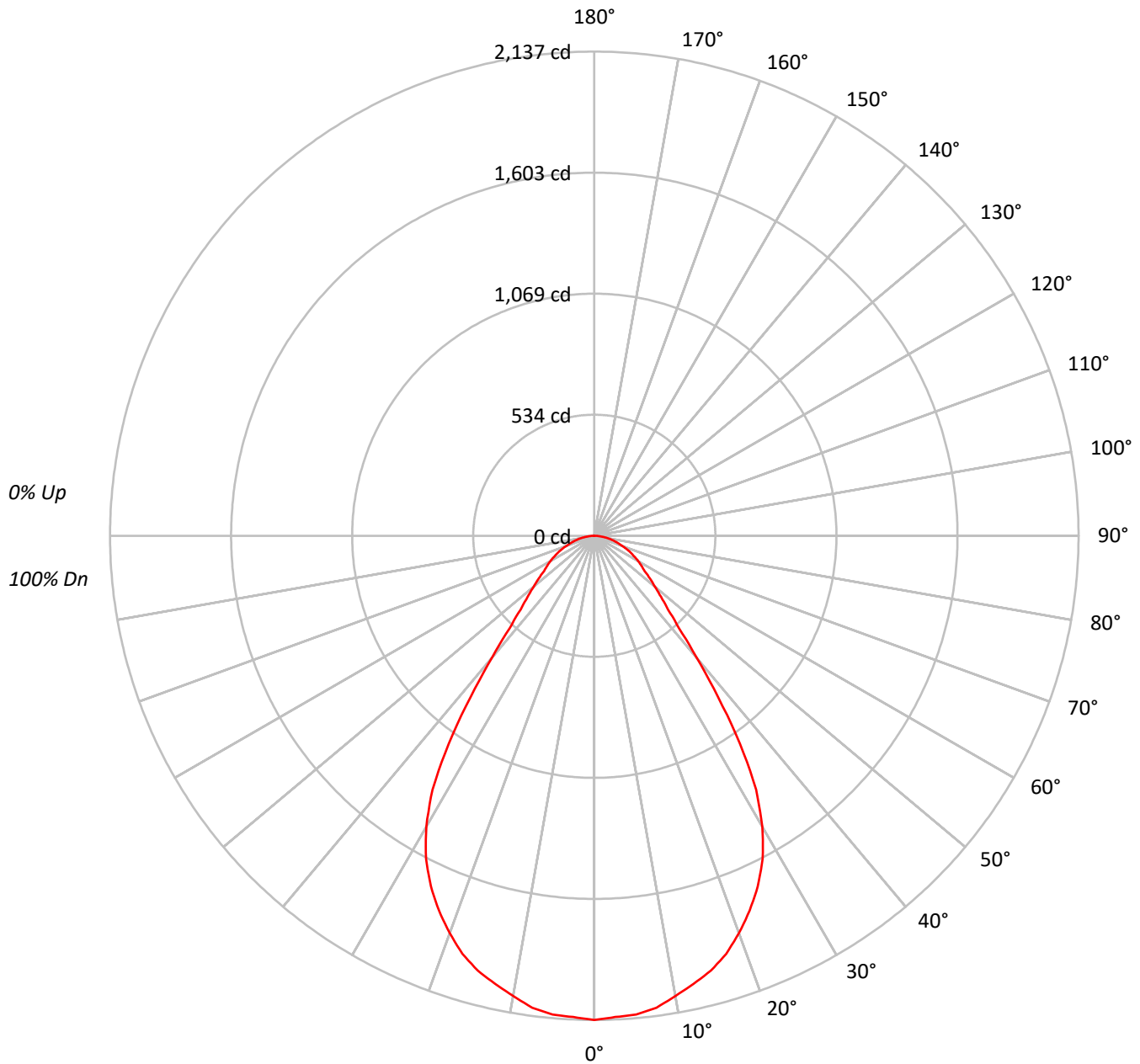
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	61	55		77	67	60	55		65	59	55		64	58	54		62	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	50		58	53	49
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	43		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	117167
5°	116740
10°	114789
15°	112765
20°	108865
25°	103234
30°	93901
35°	75027
40°	50058
45°	35686
50°	29730
55°	25920
60°	24483
65°	23063
70°	21189
75°	19804
80°	17995
85°	15788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	6.4
10°-20°	557.9	17.7
20°-30°	779.6	24.8
30°-40°	686.7	21.8
40°-50°	371.0	11.8
50°-60°	248.1	7.9
60°-70°	175.8	5.6
70°-80°	98.8	3.1
80°-90°	28.8	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°	1538.1	48.9
0°-40°	2224.9	70.7
0°-60°	2844.0	90.4
0°-90°	3147.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3147.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2137	
5°	2121	201
15°	1987	558
25°	1707	780
35°	1121	687
45°	460	371
55°	271	248
65°	178	176
75°	94	99
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2137.3
2.5°	2125.9
5°	2121.4
7.5°	2100.8
10°	2062.1
12.5°	2025.7
15°	1986.9
17.5°	1934.5
20°	1866.1
22.5°	1791.0
25°	1706.7
27.5°	1608.7
30°	1483.4
32.5°	1328.5
35°	1121.1
37.5°	895.4
40°	699.5
42.5°	551.5
45°	460.3
47.5°	398.8
50°	348.6
52.5°	307.6
55°	271.2
57.5°	246.1
60°	223.3
62.5°	200.5
65°	177.8
67.5°	154.9
70°	132.2
72.5°	111.6
75°	93.5
77.5°	75.1
80°	57.0
82.5°	41.0
85°	25.1
87.5°	11.4
90°	0.0



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— 0°-180°







(END OF REPORT)