

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: P582175

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582175
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-HM63040835-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327.5 lumens
Efficiency: N/A
Efficacy: 118.8 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

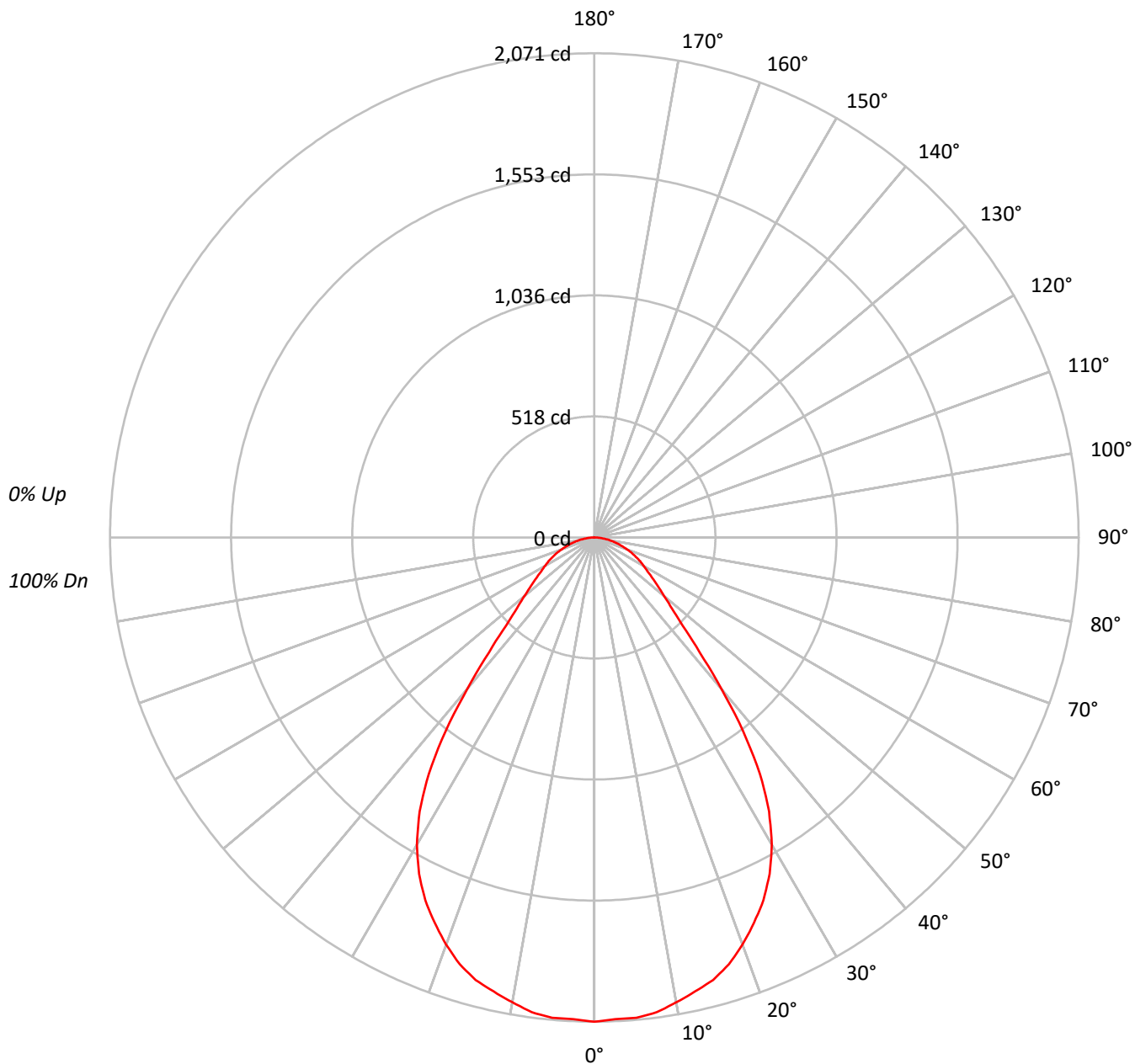
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	81	76	94	86	80	75		83	78	74			81	76	72			78
4	89	80	72	67	87	78	72	66		76	70	66			74	69	65			72
5	84	73	65	60	82	72	65	59		70	64	59			68	63	58			66
6	78	67	59	54	76	66	59	54		64	58	53			63	57	53			61
7	73	62	54	49	72	61	54	49		60	53	48			58	52	48			57
8	69	57	50	45	68	57	50	45		55	49	44			54	48	44			53
9	65	53	46	41	64	53	46	41		52	45	41			51	45	41			50
10	61	50	43	38	60	49	42	38		48	42	38			47	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113554
5°	113482
10°	112384
15°	111221
20°	108078
25°	103512
30°	96065
35°	82650
40°	60334
45°	41345
50°	33227
55°	28969
60°	26741
65°	25411
70°	23738
75°	22219
80°	20141
85°	17171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	5.9
10°-20°	550.4	16.5
20°-30°	782.8	23.5
30°-40°	753.6	22.6
40°-50°	433.6	13.0
50°-60°	274.7	8.3
60°-70°	194.5	5.8
70°-80°	110.9	3.3
80°-90°	31.6	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°	1528.6	45.9
0°-40°	2282.2	68.6
0°-60°	2990.6	89.9
0°-90°	3327.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2071	
5°	2062	195
15°	1960	550
25°	1711	783
35°	1235	754
45°	533	434
55°	303	275
65°	196	194
75°	105	111
85°	27	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2071.4
2.5°	2062.2
5°	2062.2
7.5°	2048.5
10°	2018.9
12.5°	1989.3
15°	1959.7
17.5°	1914.2
20°	1852.6
22.5°	1784.2
25°	1711.3
27.5°	1622.5
30°	1517.6
32.5°	1390.1
35°	1235.0
37.5°	1046.0
40°	843.1
42.5°	665.4
45°	533.3
47.5°	449.0
50°	389.6
52.5°	341.8
55°	303.1
57.5°	268.8
60°	243.9
62.5°	221.0
65°	195.9
67.5°	173.2
70°	148.1
72.5°	125.3
75°	104.9
77.5°	84.3
80°	63.8
82.5°	45.5
85°	27.3
87.5°	11.4
90°	0.0



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— 0°-180°







(END OF REPORT)