

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: P582168

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040835-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3102.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

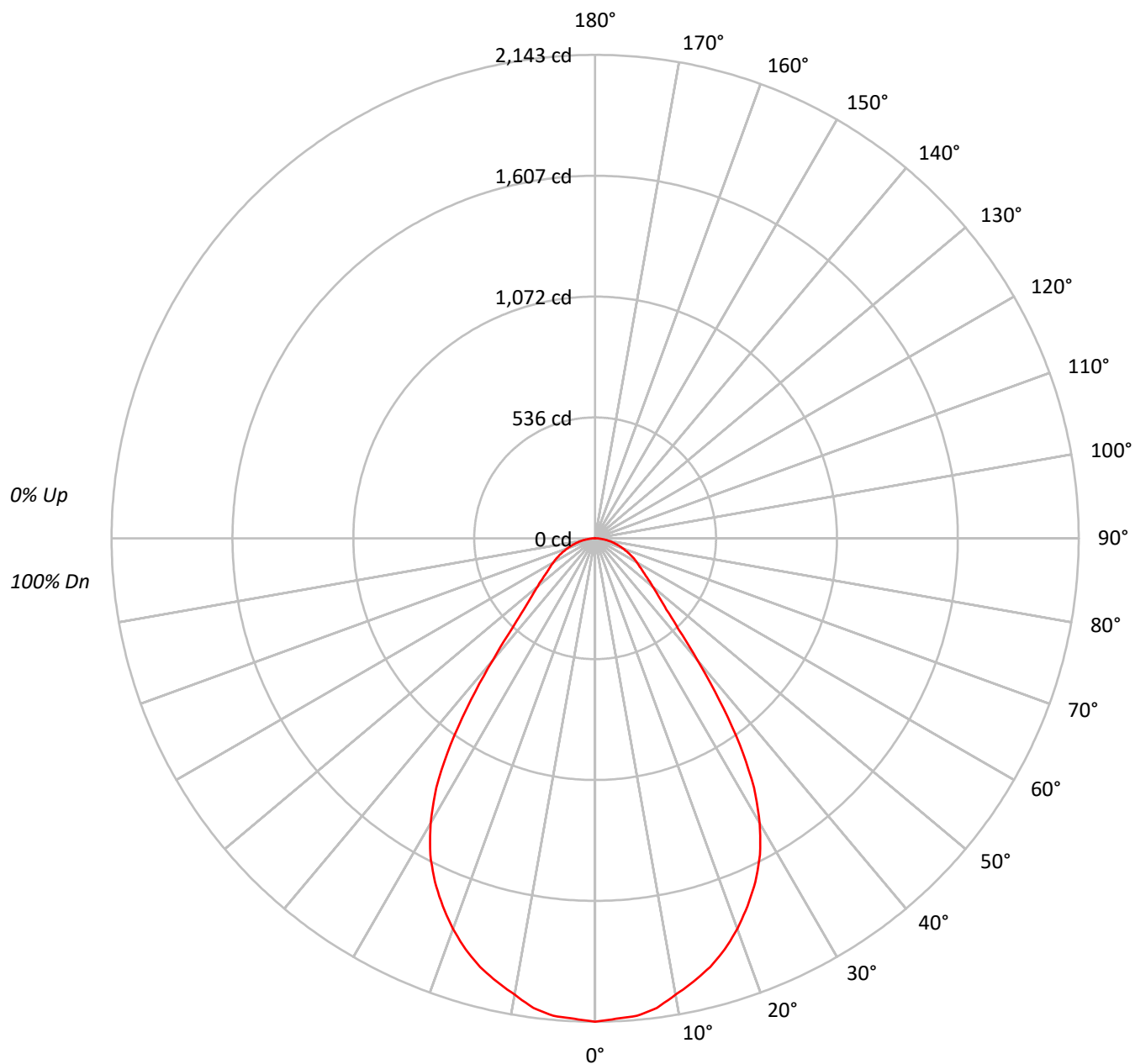
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94
2	104	97	92	87	101	95	90	86	92	88	84		89	85	83		86
3	97	88	82	77	94	87	81	76	84	79	75		81	77	73		79
4	90	81	73	68	88	79	73	68	77	71	67		75	70	66		73
5	84	74	67	61	83	73	66	61	71	65	60		69	64	60		67
6	79	68	61	55	77	67	60	55	66	59	55		64	59	54		63
7	74	63	56	50	73	62	55	50	61	55	50		60	54	50		58
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		54
9	66	55	48	43	65	54	47	43	53	47	42		52	46	42		51
10	62	51	44	40	61	51	44	40	50	44	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	117491
5°	116932
10°	114349
15°	111669
20°	107471
25°	101637
30°	92362
35°	74766
40°	50416
45°	34639
50°	28391
55°	24840
60°	23496
65°	22181
70°	20837
75°	19804
80°	17995
85°	15788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	6.5
10°-20°	552.5	17.8
20°-30°	767.7	24.7
30°-40°	683.5	22.0
40°-50°	362.8	11.7
50°-60°	237.3	7.6
60°-70°	170.1	5.5
70°-80°	98.7	3.2
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°	1520.8	49.0
0°-40°	2204.3	71.1
0°-60°	2804.4	90.4
0°-90°	3102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2143	
5°	2125	201
15°	1968	553
25°	1680	768
35°	1117	683
45°	447	363
55°	260	237
65°	171	170
75°	94	99
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2143.2
2.5°	2131.8
5°	2124.9
7.5°	2099.8
10°	2054.2
12.5°	2013.2
15°	1967.6
17.5°	1910.6
20°	1842.2
22.5°	1764.7
25°	1680.3
27.5°	1582.3
30°	1459.1
32.5°	1311.0
35°	1117.2
37.5°	902.8
40°	704.5
42.5°	547.2
45°	446.8
47.5°	380.7
50°	332.9
52.5°	294.2
55°	259.9
57.5°	234.8
60°	214.3
62.5°	193.8
65°	171.0
67.5°	150.5
70°	130.0
72.5°	111.8
75°	93.5
77.5°	75.3
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)