

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: P582031

Luminaire Tested: **HC625D010-HM60525835-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582031
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: HC625D010-HM60525835-61WDW
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: 2648.1 lumens
Efficiency: N/A
Efficacy: 98.8 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

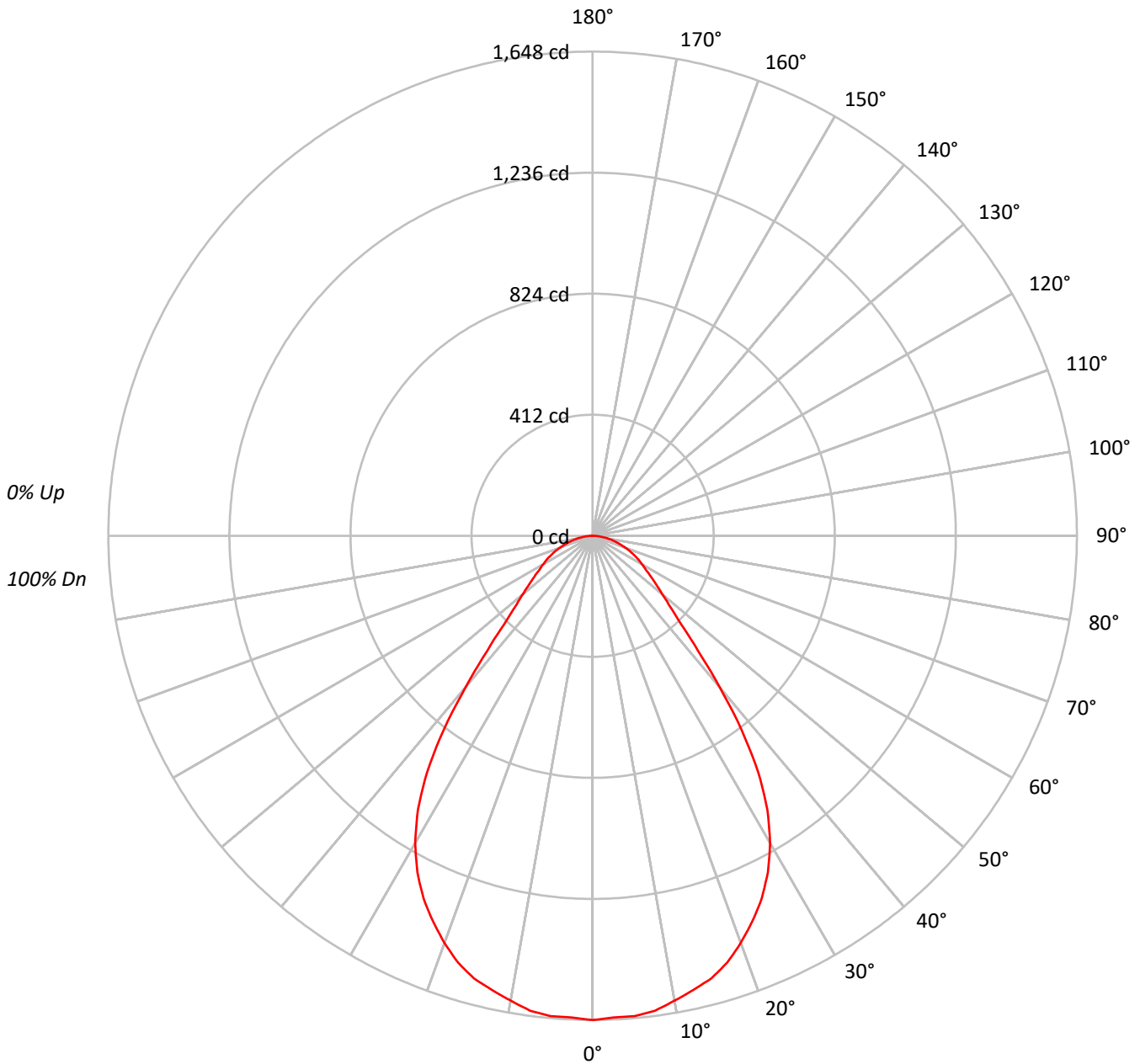
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90366
5°	90315
10°	89438
15°	88514
20°	86014
25°	82378
30°	76455
35°	65779
40°	48019
45°	32903
50°	26447
55°	23053
60°	21281
65°	20236
70°	18897
75°	17665
80°	16006
85°	13712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	5.9
10°-20°	438.0	16.5
20°-30°	623.0	23.5
30°-40°	599.8	22.6
40°-50°	345.1	13.0
50°-60°	218.7	8.3
60°-70°	154.8	5.8
70°-80°	88.2	3.3
80°-90°	25.1	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°	1216.5	45.9
0°-40°	1816.3	68.6
0°-60°	2380.0	89.9
0°-90°	2648.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1648	
5°	1641	156
15°	1560	438
25°	1362	623
35°	983	600
45°	424	345
55°	241	219
65°	156	155
75°	83	88
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1648.4
2.5°	1641.2
5°	1641.2
7.5°	1630.3
10°	1606.7
12.5°	1583.2
15°	1559.6
17.5°	1523.3
20°	1474.4
22.5°	1420.0
25°	1361.9
27.5°	1291.2
30°	1207.8
32.5°	1106.3
35°	982.9
37.5°	832.4
40°	671.0
42.5°	529.5
45°	424.4
47.5°	357.2
50°	310.1
52.5°	272.0
55°	241.2
57.5°	214.0
60°	194.1
62.5°	175.9
65°	156.0
67.5°	137.8
70°	117.9
72.5°	99.7
75°	83.4
77.5°	67.2
80°	50.7
82.5°	36.2
85°	21.8
87.5°	9.0
90°	0.0



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— 0°-180°







(END OF REPORT)