

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: P582065

Luminaire Tested: **HC625D010-HM60525927-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525927-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2261.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

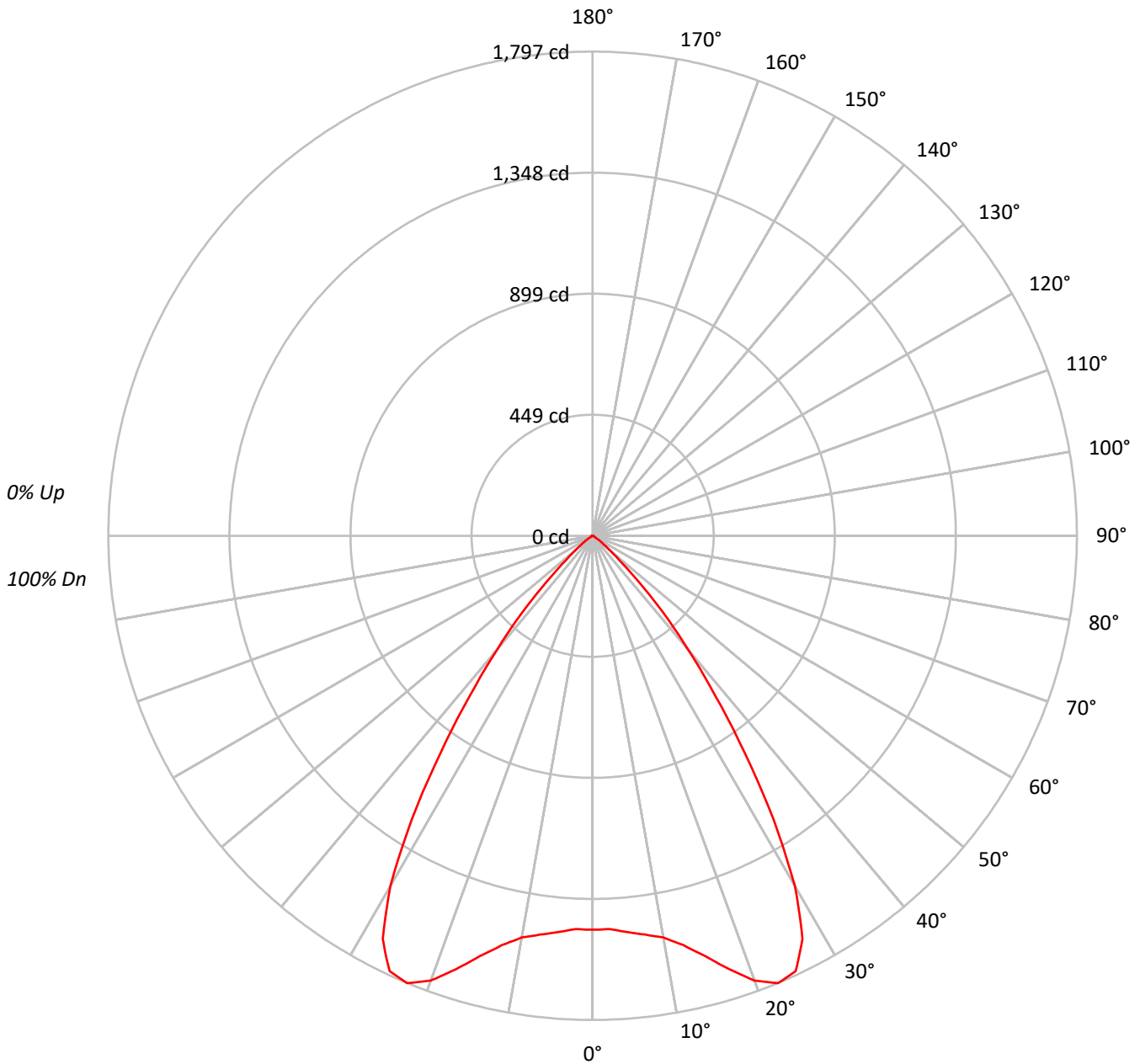
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78				78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72				72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66				66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56				56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52				52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48				48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45				45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80164
5°	81240
10°	84284
15°	91658
20°	102477
25°	107867
30°	94958
35°	65859
40°	39331
45°	18692
50°	7053
55°	2944
60°	921
65°	726
70°	449
75°	297
80°	442
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	6.3
10°-20°	463.7	20.5
20°-30°	794.6	35.1
30°-40°	617.1	27.3
40°-50°	204.0	9.0
50°-60°	31.3	1.4
60°-70°	5.5	0.2
70°-80°	2.0	0.1
80°-90°	0.6	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°	1400.5	61.9
0°-40°	2017.6	89.2
0°-60°	2252.9	99.6
0°-90°	2261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1462	
5°	1476	142
15°	1615	464
25°	1783	795
35°	984	617
45°	241	204
55°	31	31
65°	6	6
75°	1	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1462.3
2.5°	1460.9
5°	1476.3
7.5°	1493.1
10°	1514.1
12.5°	1556.1
15°	1615.0
17.5°	1686.5
20°	1756.6
22.5°	1797.3
25°	1783.3
27.5°	1686.5
30°	1500.1
32.5°	1249.1
35°	984.1
37.5°	747.3
40°	549.6
42.5°	388.3
45°	241.1
47.5°	134.6
50°	82.7
52.5°	50.5
55°	30.8
57.5°	15.4
60°	8.4
62.5°	7.0
65°	5.6
67.5°	4.3
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)