

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: P582768

Luminaire Tested: **HC650D010-HM64560840-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560840-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5611.9 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

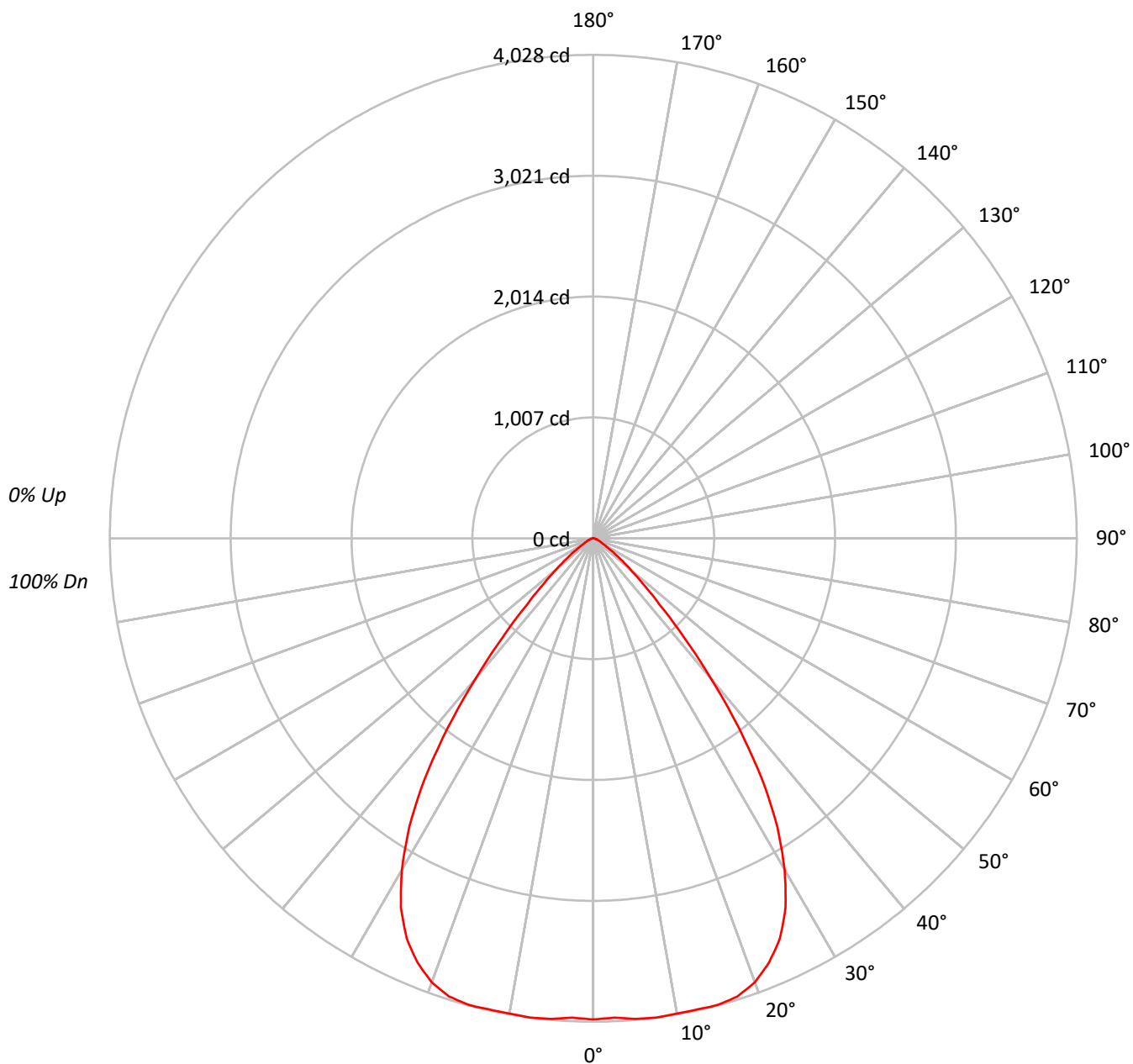
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105		110	108	105	103		103	101	100			100	98	97			96
2	106	101	96	93		104	99	95	92		96	92	90			93	90	88			90
3	100	93	87	83		98	91	86	82		89	84	81			86	83	80			84
4	94	86	79	75		92	85	79	74		82	77	73			80	76	72			78
5	89	79	73	68		87	78	72	68		76	71	67			75	70	66			73
6	83	73	67	62		82	73	66	62		71	65	61			70	65	61			68
7	79	68	62	57		77	68	61	57		66	60	56			65	60	56			64
8	74	64	57	52		73	63	57	52		62	56	52			61	56	52			60
9	70	59	53	48		69	59	53	48		58	52	48			57	52	48			56
10	66	56	49	45		65	55	49	45		54	49	45			53	48	45			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	219780
5°	221246
10°	223805
15°	228401
20°	229678
25°	222521
30°	201873
35°	164136
40°	108947
45°	60634
50°	33995
55°	18876
60°	10416
65°	7874
70°	5466
75°	4024
80°	2399
85°	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	6.8
10°-20°	1134.7	20.2
20°-30°	1672.4	29.8
30°-40°	1495.9	26.7
40°-50°	649.0	11.6
50°-60°	190.7	3.4
60°-70°	60.8	1.1
70°-80°	21.5	0.4
80°-90°	3.1	0.1
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°	3190.9	56.9
0°-40°	4686.8	83.5
0°-60°	5526.5	98.5
0°-90°	5611.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5611.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4009	
5°	4020	384
15°	4024	1135
25°	3679	1672
35°	2453	1496
45°	782	649
55°	198	191
65°	61	61
75°	19	21
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4009.1
2.5°	3997.8
5°	4020.5
7.5°	4028.2
10°	4020.5
12.5°	4020.5
15°	4024.4
17.5°	4001.6
20°	3937.0
22.5°	3826.9
25°	3678.8
27.5°	3470.0
30°	3189.1
32.5°	2854.9
35°	2452.6
37.5°	1993.2
40°	1522.4
42.5°	1112.4
45°	782.1
47.5°	558.1
50°	398.6
52.5°	284.7
55°	197.5
57.5°	132.9
60°	95.0
62.5°	75.9
65°	60.7
67.5°	45.6
70°	34.1
72.5°	26.6
75°	19.0
77.5°	15.2
80°	7.6
82.5°	3.8
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)