

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: P582822

Luminaire Tested: **HC650D010-HM64560935-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582822
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-HM64560935-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4799.9 lumens
Efficiency: N/A
Efficacy: 100.0 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

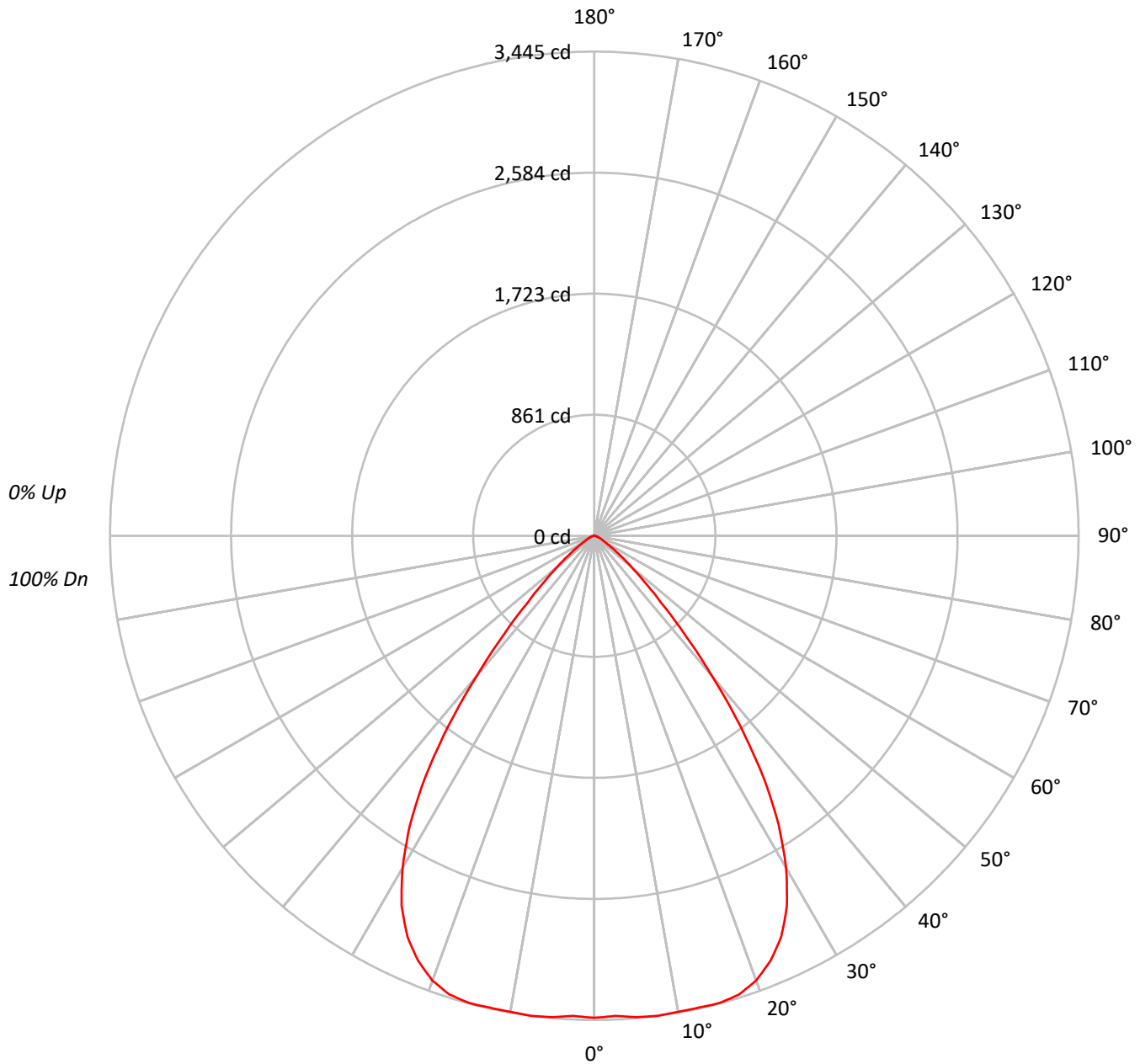
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73		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°	187989
5°	189236
10°	191424
15°	195353
20°	196449
25°	190323
30°	172672
35°	140385
40°	93189
45°	51858
50°	29082
55°	16143
60°	8892
65°	6745
70°	4680
75°	3431
80°	2052
85°	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	6.8
10°-20°	970.5	20.2
20°-30°	1430.5	29.8
30°-40°	1279.5	26.7
40°-50°	555.1	11.6
50°-60°	163.1	3.4
60°-70°	52.1	1.1
70°-80°	18.4	0.4
80°-90°	2.6	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°	2729.3	56.9
0°-40°	4008.7	83.5
0°-60°	4726.9	98.5
0°-90°	4799.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4799.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3429	
5°	3439	328
15°	3442	971
25°	3146	1430
35°	2098	1279
45°	669	555
55°	169	163
65°	52	52
75°	16	18
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3429.2
2.5°	3419.3
5°	3438.8
7.5°	3445.3
10°	3438.8
12.5°	3438.8
15°	3442.1
17.5°	3422.7
20°	3367.4
22.5°	3273.3
25°	3146.5
27.5°	2968.0
30°	2727.8
32.5°	2442.0
35°	2097.7
37.5°	1704.8
40°	1302.2
42.5°	951.4
45°	668.9
47.5°	477.4
50°	341.0
52.5°	243.5
55°	168.9
57.5°	113.6
60°	81.1
62.5°	65.0
65°	52.0
67.5°	39.0
70°	29.2
72.5°	22.7
75°	16.2
77.5°	13.0
80°	6.5
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)