

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: P582390

Luminaire Tested: **HC635D010-HM63040935-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582390
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: HC635D010-HM63040935-61WDH
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: 3577.4 lumens
Efficiency: N/A
Efficacy: 106.2 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

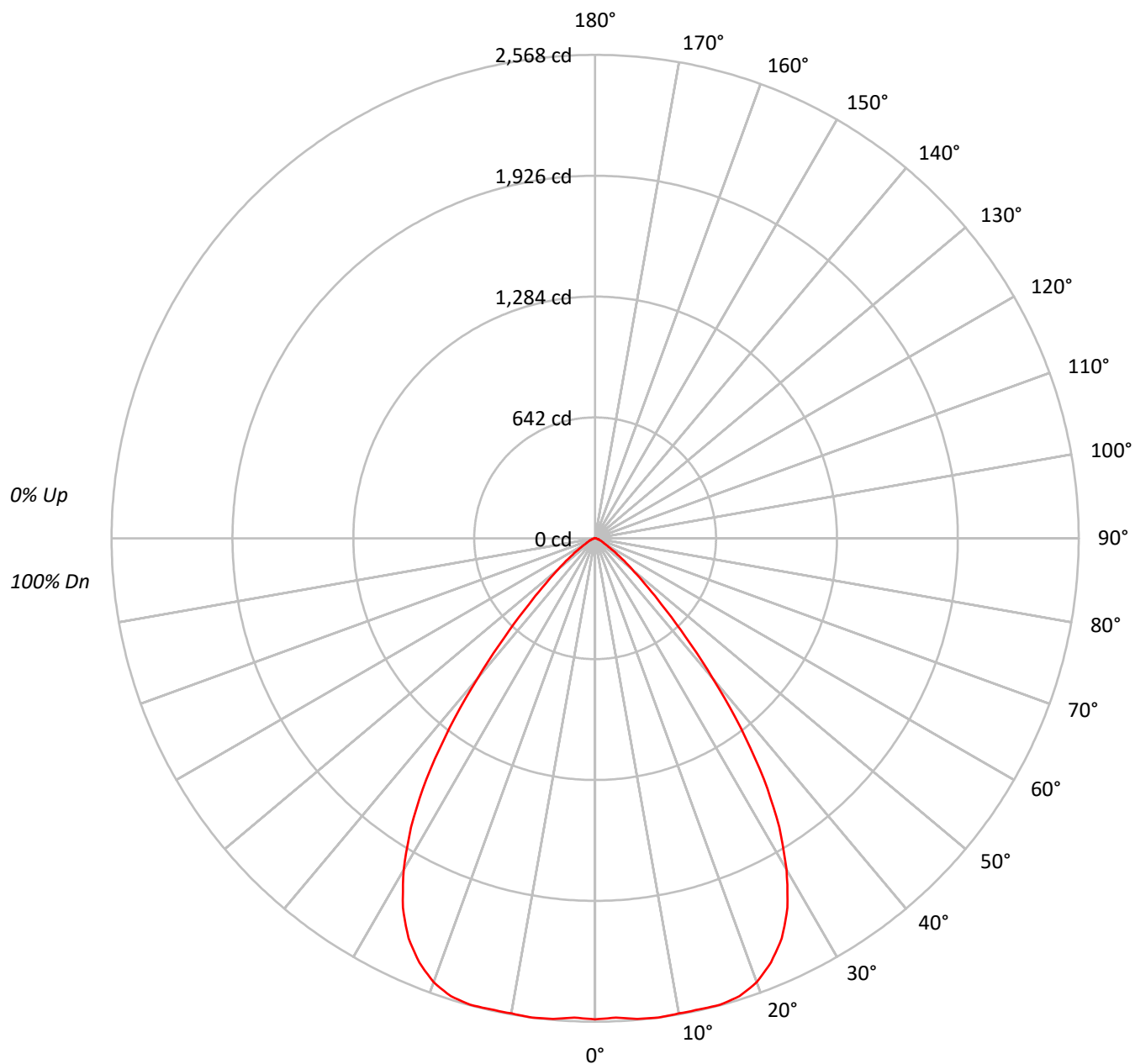
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	140104
5°	141041
10°	142672
15°	145591
20°	146418
25°	141849
30°	128684
35°	104628
40°	69452
45°	38647
50°	21679
55°	12023
60°	6633
65°	5020
70°	3494
75°	2563
80°	1515
85°	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	6.8
10°-20°	723.3	20.2
20°-30°	1066.1	29.8
30°-40°	953.6	26.7
40°-50°	413.7	11.6
50°-60°	121.5	3.4
60°-70°	38.8	1.1
70°-80°	13.7	0.4
80°-90°	2.0	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°	2034.1	56.9
0°-40°	2987.7	83.5
0°-60°	3522.9	98.5
0°-90°	3577.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3577.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2556	
5°	2563	245
15°	2565	723
25°	2345	1066
35°	1563	954
45°	498	414
55°	126	122
65°	39	39
75°	12	14
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2555.7
2.5°	2548.4
5°	2563.0
7.5°	2567.8
10°	2563.0
12.5°	2563.0
15°	2565.3
17.5°	2550.8
20°	2509.8
22.5°	2439.5
25°	2345.1
27.5°	2212.0
30°	2032.9
32.5°	1819.9
35°	1563.4
37.5°	1270.6
40°	970.5
42.5°	709.1
45°	498.5
47.5°	355.8
50°	254.2
52.5°	181.5
55°	125.8
57.5°	84.7
60°	60.5
62.5°	48.4
65°	38.7
67.5°	29.1
70°	21.8
72.5°	16.9
75°	12.1
77.5°	9.7
80°	4.8
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)