

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: P582380

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040935-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3427.5 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

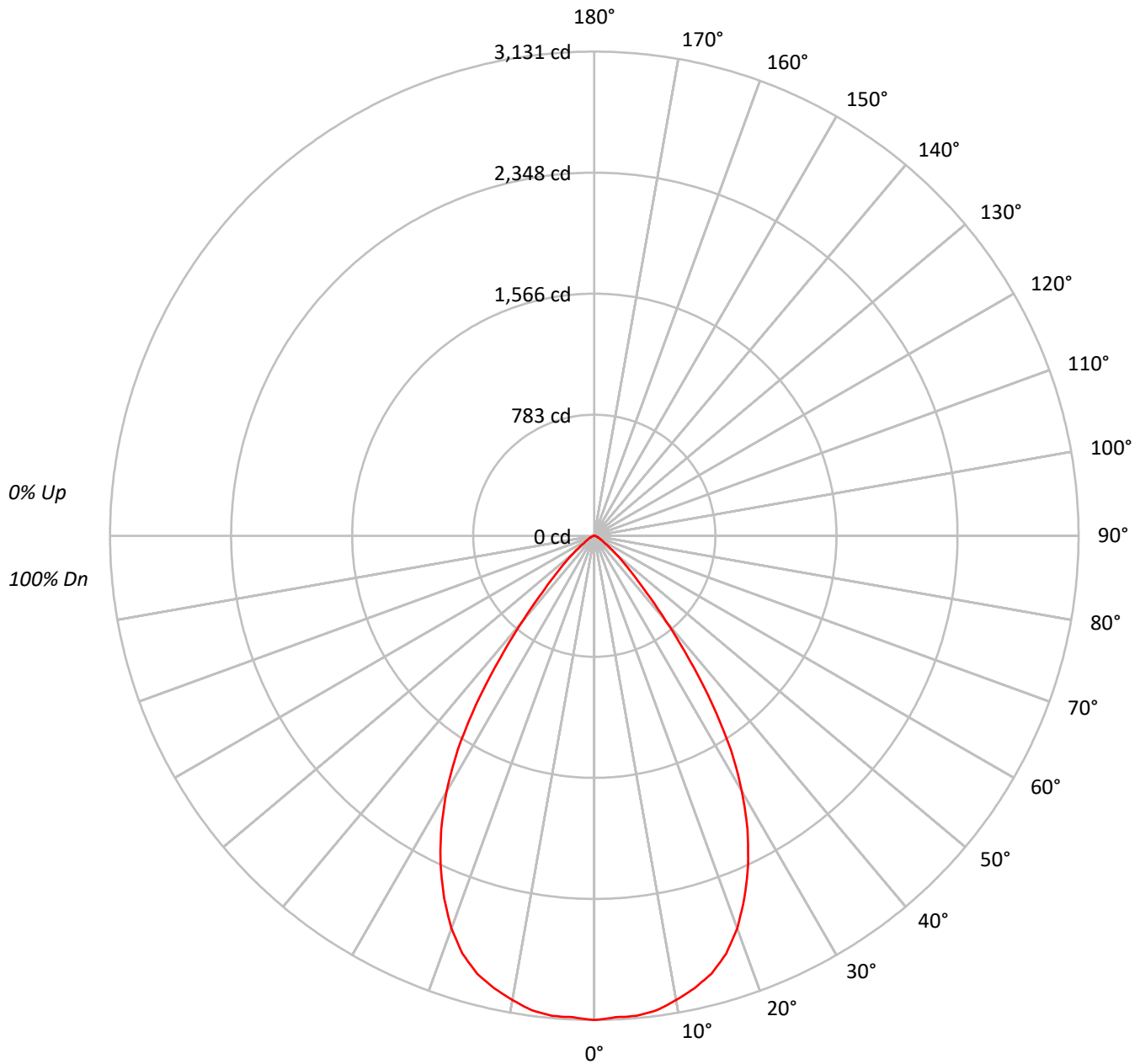
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	79	76		82	78	75		80
5	90	81	75	71	89	80	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	67	64		71
7	81	71	65	60	79	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	62	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	52	48	57	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171658
5°	171511
10°	169725
15°	166318
20°	157549
25°	142272
30°	120854
35°	89229
40°	51604
45°	27390
50°	15479
55°	8095
60°	5307
65°	3775
70°	2709
75°	2055
80°	1515
85°	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.4	8.6
10°-20°	819.6	23.9
20°-30°	1069.8	31.2
30°-40°	817.5	23.9
40°-50°	296.0	8.6
50°-60°	86.0	2.5
60°-70°	30.7	0.9
70°-80°	10.5	0.3
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°	2184.8	63.7
0°-40°	3002.2	87.6
0°-60°	3384.2	98.7
0°-90°	3427.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3131	
5°	3117	295
15°	2930	820
25°	2352	1070
35°	1333	817
45°	353	296
55°	85	86
65°	29	31
75°	10	10
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3131.3
2.5°	3116.7
5°	3116.7
7.5°	3095.0
10°	3049.0
12.5°	2995.8
15°	2930.5
17.5°	2833.6
20°	2700.6
22.5°	2536.0
25°	2352.1
27.5°	2144.0
30°	1909.2
32.5°	1645.5
35°	1333.3
37.5°	1006.7
40°	721.1
42.5°	498.5
45°	353.3
47.5°	254.1
50°	181.5
52.5°	128.3
55°	84.7
57.5°	60.5
60°	48.4
62.5°	38.7
65°	29.1
67.5°	24.2
70°	16.9
72.5°	12.1
75°	9.7
77.5°	7.2
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)