

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: P582398

Luminaire Tested: **HC635D010-HM63040940-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582398
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-HM63040940-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3515.7 lumens
Efficiency: N/A
Efficacy: 104.3 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

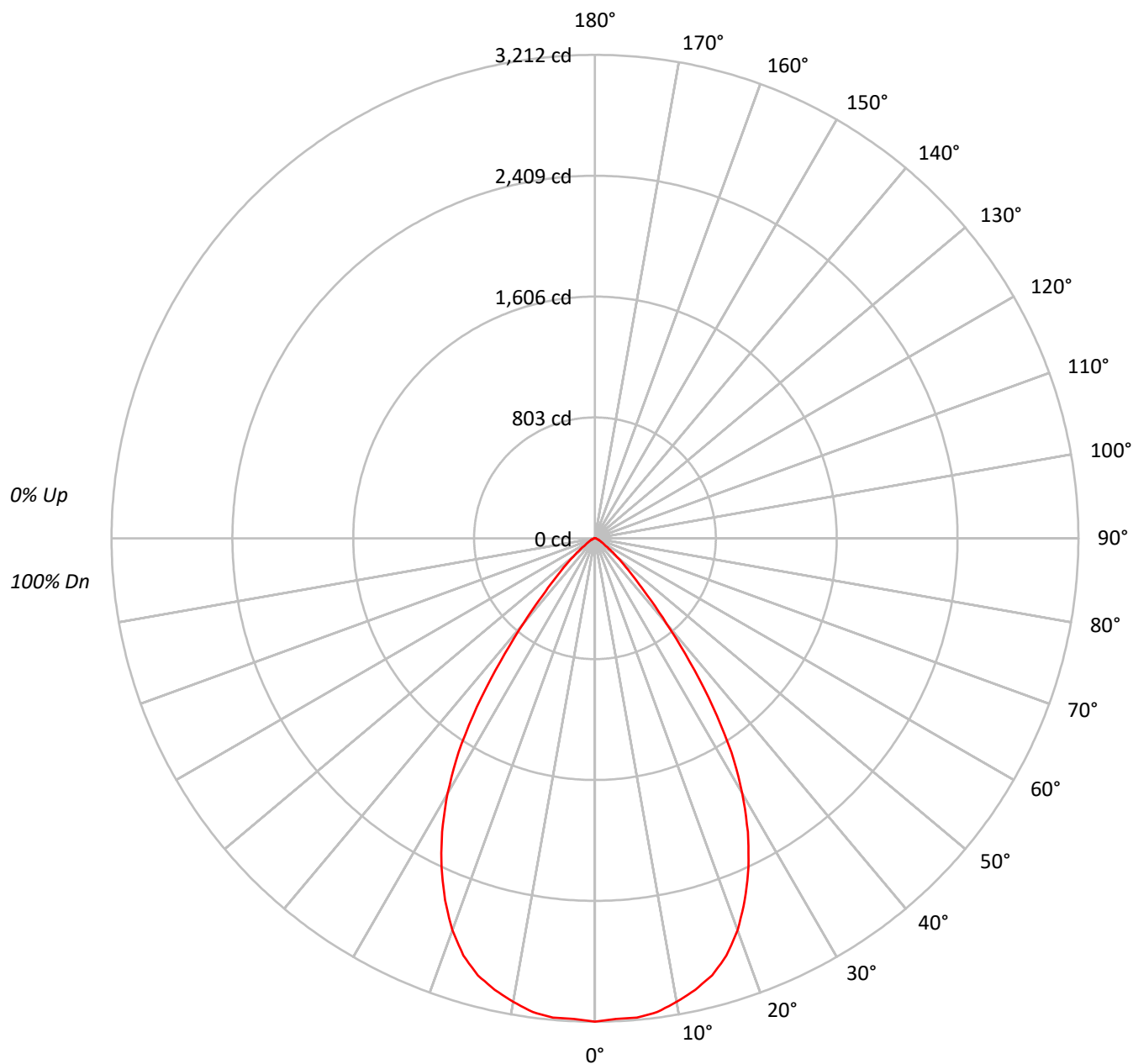
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	176077
5°	175935
10°	174101
15°	170603
20°	161603
25°	145938
30°	123975
35°	91531
40°	52928
45°	28096
50°	15872
55°	8296
60°	5438
65°	3866
70°	2789
75°	2097
80°	1578
85°	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.0	8.6
10°-20°	840.7	23.9
20°-30°	1097.3	31.2
30°-40°	838.6	23.9
40°-50°	303.6	8.6
50°-60°	88.1	2.5
60°-70°	31.5	0.9
70°-80°	10.8	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°	2241.0	63.7
0°-40°	3079.6	87.6
0°-60°	3471.3	98.7
0°-90°	3515.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3515.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3212	
5°	3197	303
15°	3006	841
25°	2413	1097
35°	1368	839
45°	362	304
55°	87	88
65°	30	32
75°	10	11
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3211.9
2.5°	3197.1
5°	3197.1
7.5°	3174.7
10°	3127.6
12.5°	3072.9
15°	3006.0
17.5°	2906.6
20°	2770.1
22.5°	2601.4
25°	2412.7
27.5°	2199.2
30°	1958.5
32.5°	1687.9
35°	1367.7
37.5°	1032.6
40°	739.6
42.5°	511.4
45°	362.4
47.5°	260.6
50°	186.1
52.5°	131.5
55°	86.8
57.5°	62.1
60°	49.6
62.5°	39.7
65°	29.8
67.5°	24.9
70°	17.4
72.5°	12.4
75°	9.9
77.5°	7.5
80°	5.0
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)