

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: P582408

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582408
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-HM63040940-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.5 lumens
Efficiency: N/A
Efficacy: 108.9 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

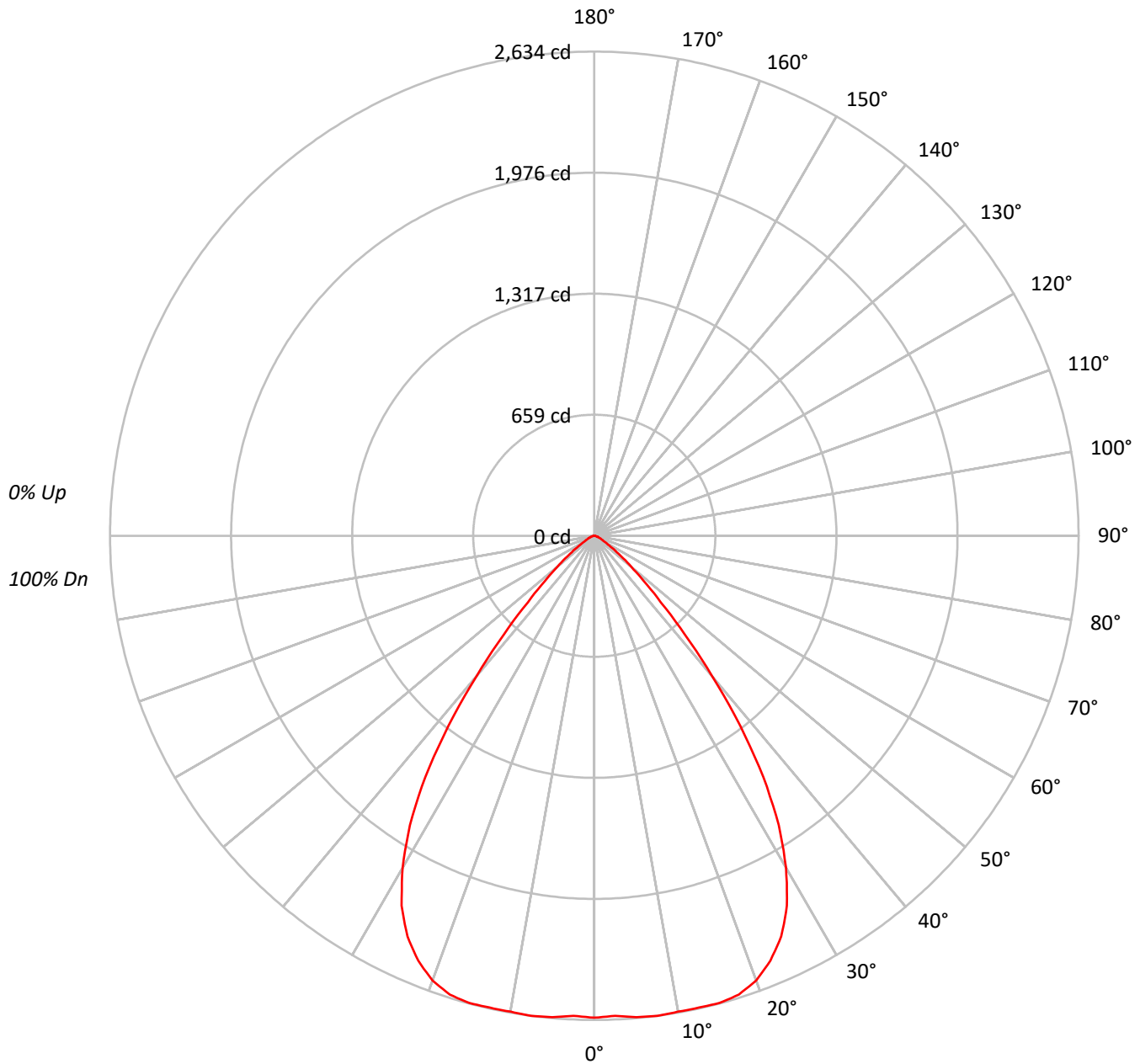
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	143711
5°	144673
10°	146346
15°	149348
20°	150186
25°	145502
30°	132001
35°	107325
40°	71241
45°	39648
50°	22234
55°	12339
60°	6809
65°	5150
70°	3574
75°	2626
80°	1578
85°	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.9	6.8
10°-20°	742.0	20.2
20°-30°	1093.6	29.8
30°-40°	978.1	26.7
40°-50°	424.4	11.6
50°-60°	124.7	3.4
60°-70°	39.8	1.1
70°-80°	14.0	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°	2086.5	56.9
0°-40°	3064.6	83.5
0°-60°	3613.7	98.5
0°-90°	3669.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3669.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2622	
5°	2629	251
15°	2632	742
25°	2406	1094
35°	1604	978
45°	511	424
55°	129	125
65°	40	40
75°	12	14
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2621.5
2.5°	2614.1
5°	2629.0
7.5°	2633.9
10°	2629.0
12.5°	2629.0
15°	2631.5
17.5°	2616.5
20°	2574.4
22.5°	2502.4
25°	2405.5
27.5°	2269.0
30°	2085.3
32.5°	1866.8
35°	1603.7
37.5°	1303.3
40°	995.5
42.5°	727.4
45°	511.4
47.5°	364.9
50°	260.7
52.5°	186.1
55°	129.1
57.5°	86.9
60°	62.1
62.5°	49.6
65°	39.7
67.5°	29.8
70°	22.3
72.5°	17.4
75°	12.4
77.5°	9.9
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)