

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: P582371

Luminaire Tested: **HC635D010-HM63040930-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956.9 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

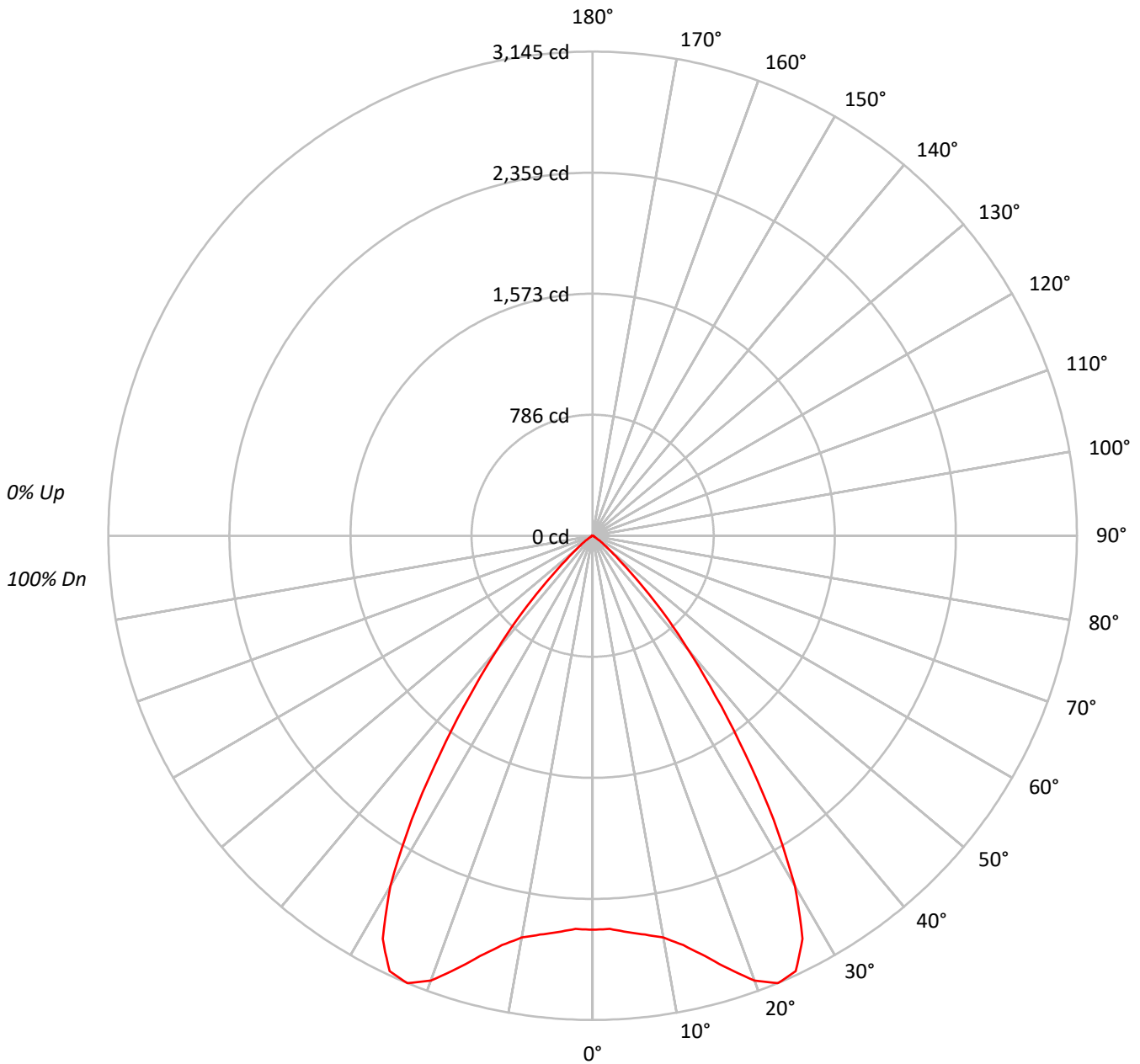
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582371

CATALOG NUMBER: HC635D010-HM63040930-61WDC

Luminous Intensity Polar Plot





TEST NUMBER: P582371

CATALOG NUMBER: HC635D010-HM63040930-61WDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140279
5°	142163
10°	147498
15°	160410
20°	179338
25°	188763
30°	166177
35°	115262
40°	68822
45°	32717
50°	12341
55°	5161
60°	1612
65°	1271
70°	785
75°	530
80°	789
85°	0



TEST NUMBER: P582371

CATALOG NUMBER: HC635D010-HM63040930-61WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	6.3
10°-20°	811.6	20.5
20°-30°	1390.6	35.1
30°-40°	1080.0	27.3
40°-50°	357.0	9.0
50°-60°	54.8	1.4
60°-70°	9.7	0.2
70°-80°	3.6	0.1
80°-90°	1.0	0.0
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°	2450.9	61.9
0°-40°	3530.9	89.2
0°-60°	3942.6	99.6
0°-90°	3956.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3956.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2559	
5°	2583	249
15°	2826	812
25°	3121	1391
35°	1722	1080
45°	422	357
55°	54	55
65°	10	10
75°	2	4
85°	0	1
90°	0	



TEST NUMBER: P582371

CATALOG NUMBER: HC635D010-HM63040930-61WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2558.9
2.5°	2556.4
5°	2583.4
7.5°	2612.9
10°	2649.7
12.5°	2723.3
15°	2826.4
17.5°	2951.5
20°	3074.1
22.5°	3145.3
25°	3120.7
27.5°	2951.5
30°	2625.2
32.5°	2186.0
35°	1722.3
37.5°	1307.6
40°	961.7
42.5°	679.5
45°	422.0
47.5°	235.5
50°	144.7
52.5°	88.3
55°	54.0
57.5°	27.0
60°	14.7
62.5°	12.3
65°	9.8
67.5°	7.4
70°	4.9
72.5°	4.9
75°	2.5
77.5°	2.5
80°	2.5
82.5°	2.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)