

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: P582317

Luminaire Tested: **HC635D010-HM63040835-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582317
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-HM63040835-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4367.8 lumens
Efficiency: N/A
Efficacy: 129.6 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

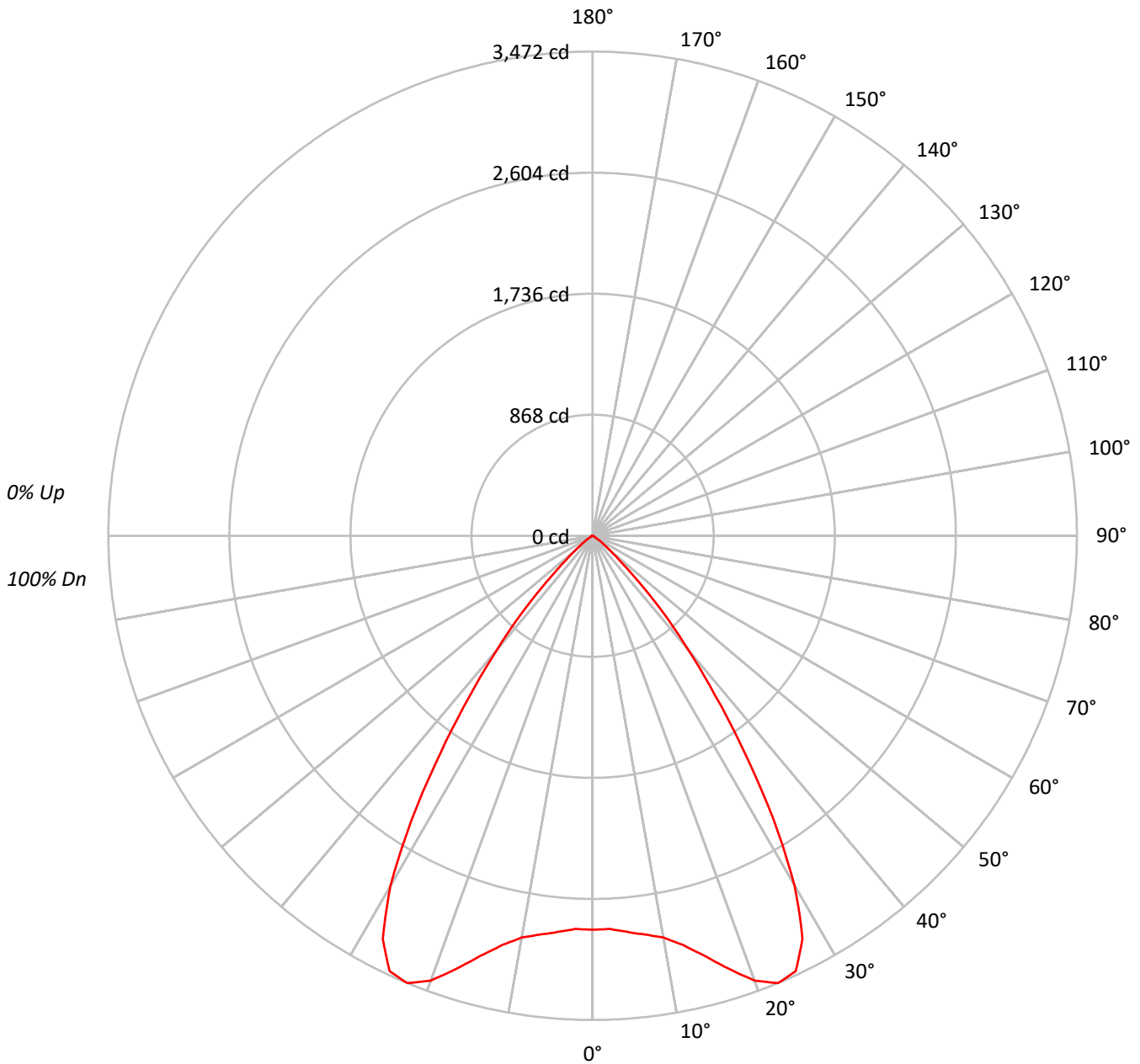
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582317

CATALOG NUMBER: HC635D010-HM63040835-61WDC

Luminous Intensity Polar Plot





TEST NUMBER: P582317

CATALOG NUMBER: HC635D010-HM63040835-61WDC

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°	154851
5°	156933
10°	162817
15°	177067
20°	197966
25°	208373
30°	183433
35°	127234
40°	75971
45°	36120
50°	13629
55°	5696
60°	1776
65°	1414
70°	866
75°	572
80°	852
85°	0



TEST NUMBER: P582317

CATALOG NUMBER: HC635D010-HM63040835-61WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	6.3
10°-20°	895.9	20.5
20°-30°	1535.1	35.1
30°-40°	1192.2	27.3
40°-50°	394.1	9.0
50°-60°	60.4	1.4
60°-70°	10.7	0.2
70°-80°	3.9	0.1
80°-90°	1.1	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°	2705.4	61.9
0°-40°	3897.6	89.2
0°-60°	4352.1	99.6
0°-90°	4367.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4367.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2825	
5°	2852	274
15°	3120	896
25°	3445	1535
35°	1901	1192
45°	466	394
55°	60	60
65°	11	11
75°	3	4
85°	0	1
90°	0	



TEST NUMBER: P582317

CATALOG NUMBER: HC635D010-HM63040835-61WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2824.7
2.5°	2821.9
5°	2851.8
7.5°	2884.2
10°	2924.9
12.5°	3006.2
15°	3119.9
17.5°	3258.0
20°	3393.4
22.5°	3471.9
25°	3444.9
27.5°	3258.0
30°	2897.8
32.5°	2413.0
35°	1901.2
37.5°	1443.5
40°	1061.6
42.5°	750.1
45°	465.9
47.5°	260.0
50°	159.8
52.5°	97.4
55°	59.6
57.5°	29.8
60°	16.2
62.5°	13.5
65°	10.9
67.5°	8.2
70°	5.4
72.5°	5.4
75°	2.7
77.5°	2.7
80°	2.7
82.5°	2.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)