

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: P582389

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582389
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-HM63040935-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3901.5 lumens
Efficiency: N/A
Efficacy: 115.8 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

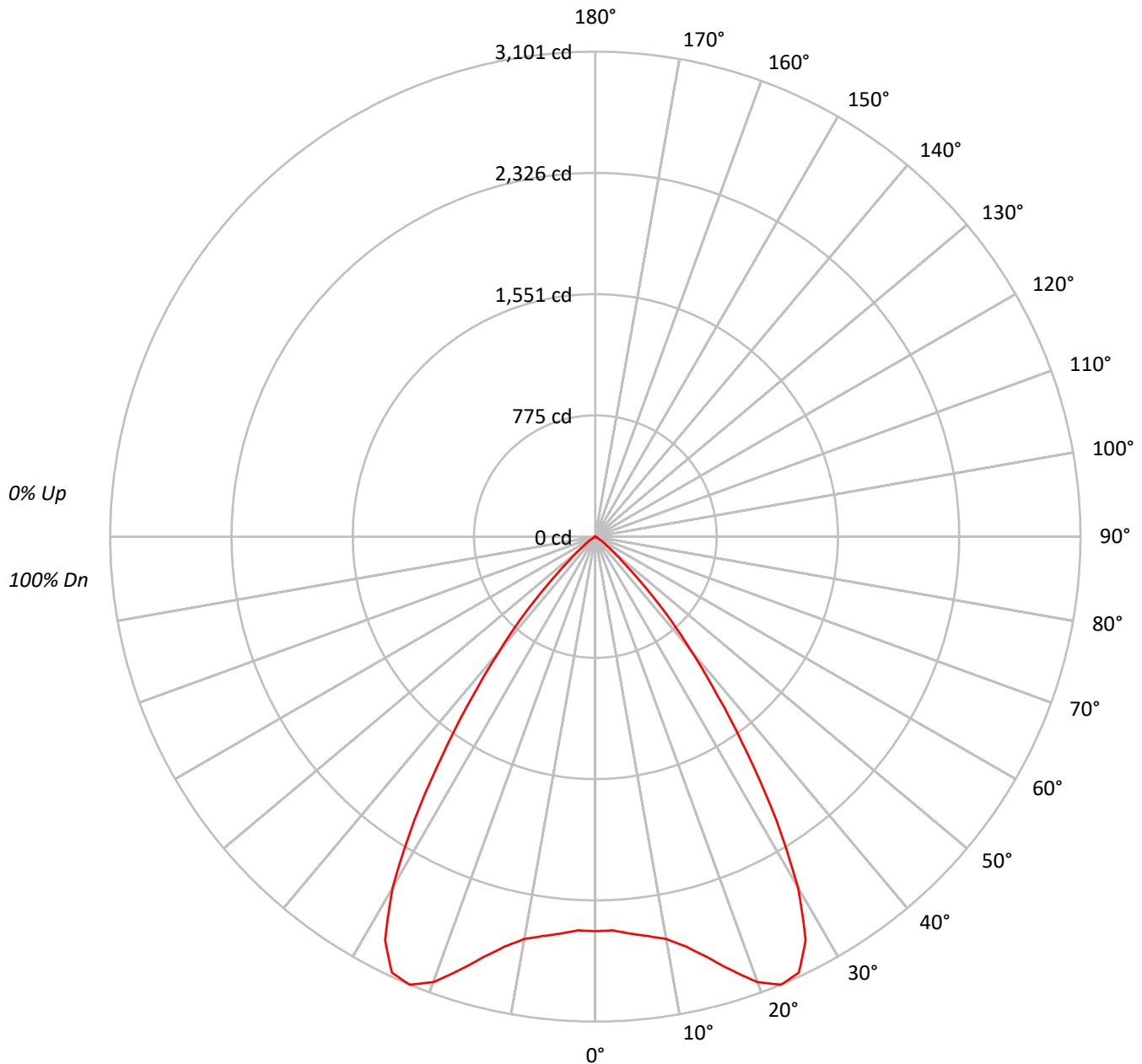
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	138317
5°	140177
10°	145433
15°	158162
20°	176824
25°	186120
30°	163848
35°	113649
40°	67863
45°	32251
50°	12170
55°	5085
60°	1590
65°	1258
70°	769
75°	530
80°	789
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	6.3
10°-20°	800.2	20.5
20°-30°	1371.2	35.1
30°-40°	1064.9	27.3
40°-50°	352.0	9.0
50°-60°	54.0	1.4
60°-70°	9.5	0.2
70°-80°	3.5	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°	2416.5	61.9
0°-40°	3481.4	89.2
0°-60°	3887.4	99.6
0°-90°	3901.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2523	
5°	2547	245
15°	2787	800
25°	3077	1371
35°	1698	1065
45°	416	352
55°	53	54
65°	10	10
75°	2	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2523.1
2.5°	2520.7
5°	2547.3
7.5°	2576.3
10°	2612.6
12.5°	2685.2
15°	2786.8
17.5°	2910.1
20°	3031.0
22.5°	3101.2
25°	3077.0
27.5°	2910.1
30°	2588.4
32.5°	2155.3
35°	1698.2
37.5°	1289.4
40°	948.3
42.5°	670.1
45°	416.0
47.5°	232.2
50°	142.7
52.5°	87.1
55°	53.2
57.5°	26.6
60°	14.5
62.5°	12.1
65°	9.7
67.5°	7.2
70°	4.8
72.5°	4.8
75°	2.5
77.5°	2.5
80°	2.5
82.5°	2.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)