

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: P582381

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040935-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3340.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

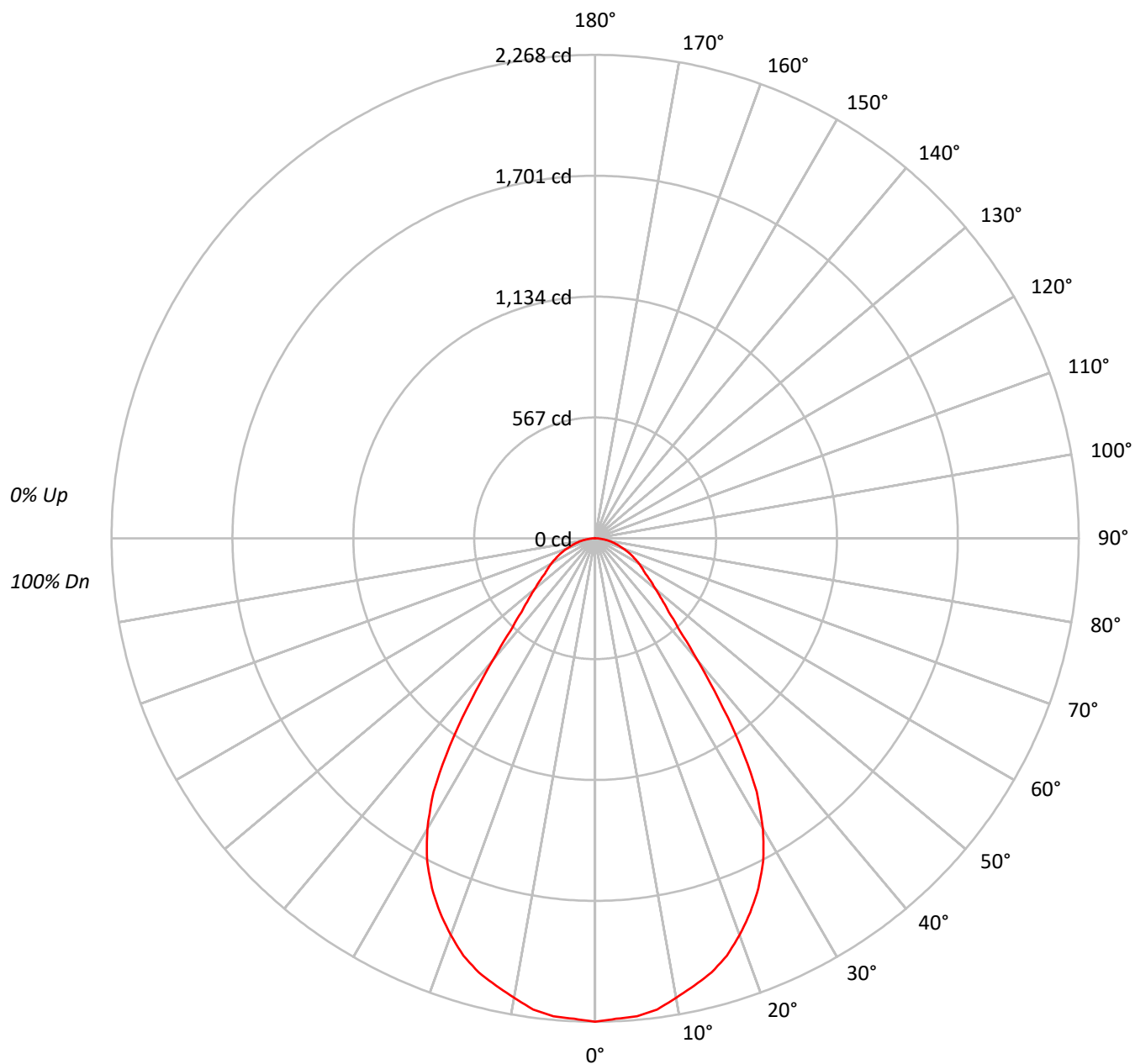
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	61	55		77	67	60	55		65	59	55		64	58	54		62	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	50		58	53	49
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	43		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124349
5°	123894
10°	121825
15°	119677
20°	115539
25°	109555
30°	99655
35°	79625
40°	53121
45°	37872
50°	31547
55°	27507
60°	25985
65°	24464
70°	22488
75°	21011
80°	19100
85°	16731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	6.4
10°-20°	592.1	17.7
20°-30°	827.4	24.8
30°-40°	728.8	21.8
40°-50°	393.8	11.8
50°-60°	263.3	7.9
60°-70°	186.6	5.6
70°-80°	104.9	3.1
80°-90°	30.6	0.9
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°	1632.4	48.9
0°-40°	2361.2	70.7
0°-60°	3018.2	90.4
0°-90°	3340.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2268	
5°	2251	213
15°	2109	592
25°	1811	827
35°	1190	729
45°	488	394
55°	288	263
65°	189	187
75°	99	105
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2268.3
2.5°	2256.2
5°	2251.4
7.5°	2229.6
10°	2188.5
12.5°	2149.7
15°	2108.7
17.5°	2053.1
20°	1980.5
22.5°	1900.7
25°	1811.2
27.5°	1707.2
30°	1574.3
32.5°	1409.9
35°	1189.8
37.5°	950.4
40°	742.3
42.5°	585.3
45°	488.5
47.5°	423.2
50°	369.9
52.5°	326.4
55°	287.8
57.5°	261.2
60°	237.0
62.5°	212.7
65°	188.6
67.5°	164.4
70°	140.3
72.5°	118.5
75°	99.2
77.5°	79.8
80°	60.5
82.5°	43.5
85°	26.6
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)