

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: P582273

Luminaire Tested: **HC635D010-HM63040827-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582273
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-HM63040827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3359.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

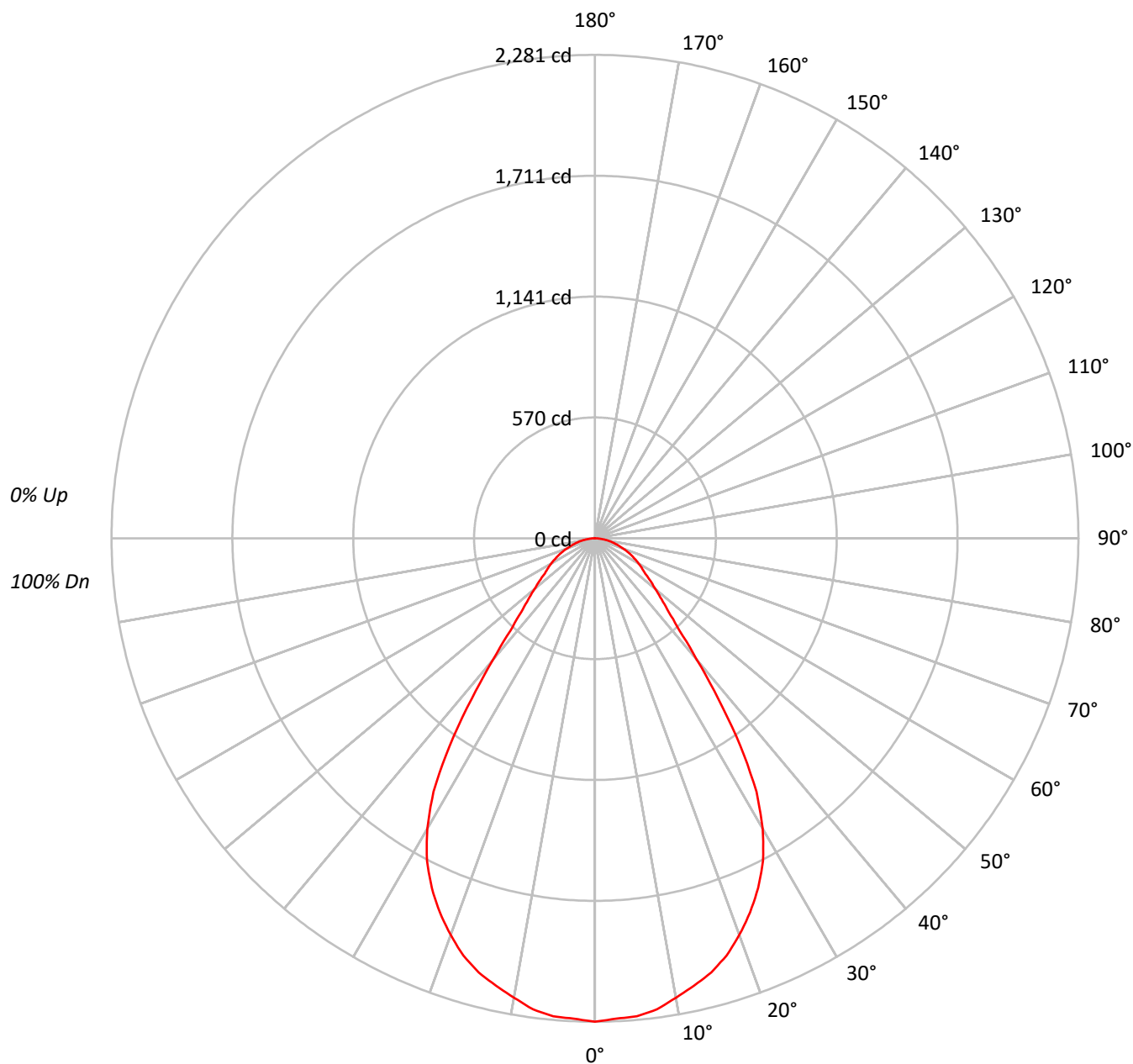
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	125045
5°	124587
10°	122504
15°	120341
20°	116187
25°	110166
30°	100205
35°	80067
40°	53422
45°	38081
50°	31726
55°	27660
60°	26127
65°	24594
70°	22616
75°	21117
80°	19194
85°	16794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	6.4
10°-20°	595.4	17.7
20°-30°	832.0	24.8
30°-40°	732.9	21.8
40°-50°	396.0	11.8
50°-60°	264.7	7.9
60°-70°	187.7	5.6
70°-80°	105.5	3.1
80°-90°	30.7	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°	1641.5	48.9
0°-40°	2374.4	70.7
0°-60°	3035.1	90.4
0°-90°	3359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3359.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2281	
5°	2264	214
15°	2120	595
25°	1821	832
35°	1196	733
45°	491	396
55°	289	265
65°	190	188
75°	100	106
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2281.0
2.5°	2268.8
5°	2264.0
7.5°	2242.0
10°	2200.7
12.5°	2161.9
15°	2120.4
17.5°	2064.5
20°	1991.6
22.5°	1911.3
25°	1821.3
27.5°	1716.8
30°	1583.0
32.5°	1417.7
35°	1196.4
37.5°	955.7
40°	746.5
42.5°	588.5
45°	491.2
47.5°	425.6
50°	372.0
52.5°	328.3
55°	289.4
57.5°	262.6
60°	238.3
62.5°	214.0
65°	189.6
67.5°	165.4
70°	141.1
72.5°	119.2
75°	99.7
77.5°	80.3
80°	60.8
82.5°	43.8
85°	26.7
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)