

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: P582815

Luminaire Tested: **HC650D010-HM64560935-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560935-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4712.3 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

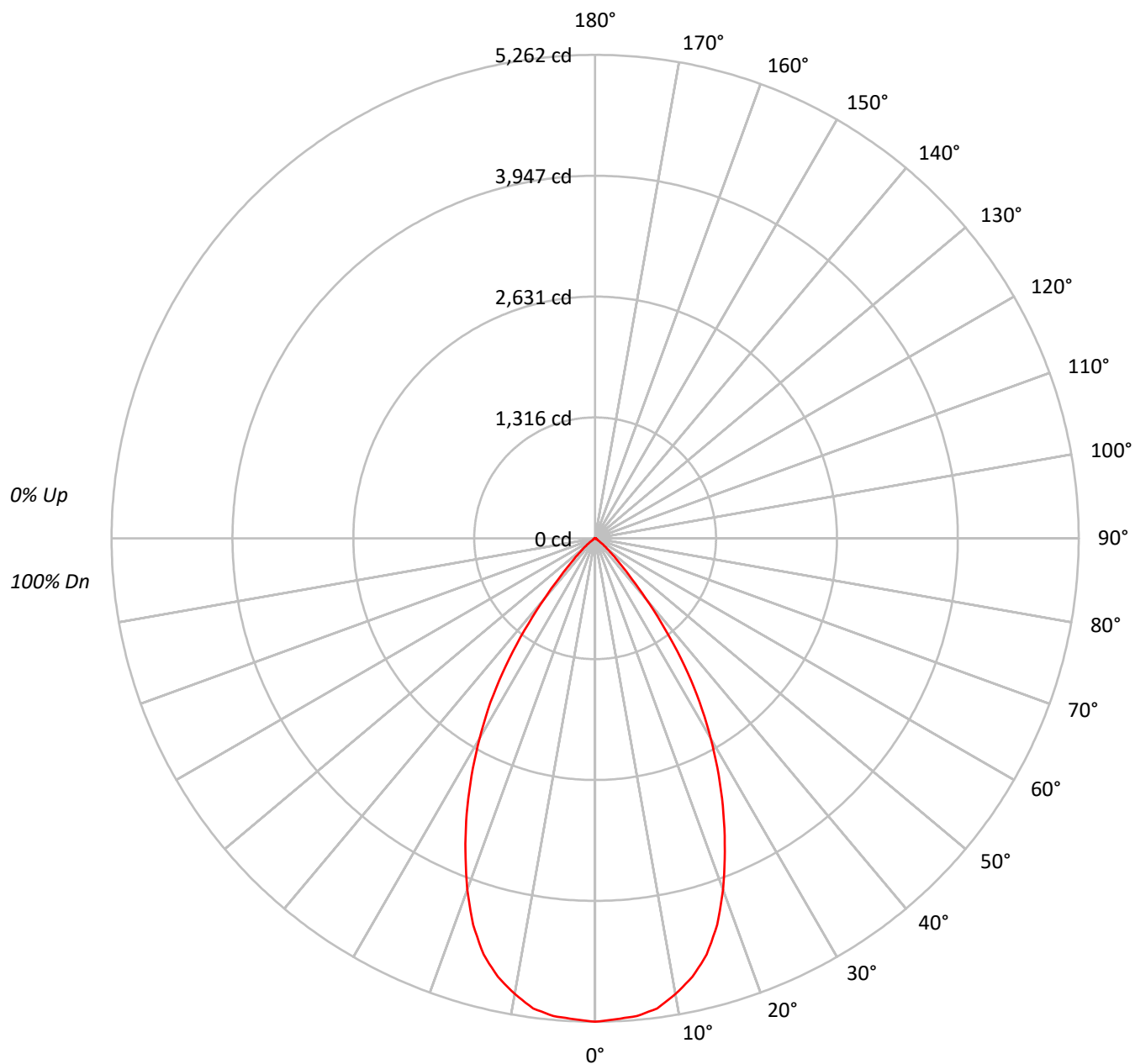
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68		86	78	72	68		76	71	68		75	71	67		74	70	67
7	83	74	68	64		82	73	67	63		72	67	63		71	66	63		70	66	62
8	79	70	64	59		78	69	63	59		68	63	59		67	62	59		66	62	59
9	75	66	60	56		74	65	59	56		64	59	55		63	59	55		62	58	55
10	72	62	56	52		71	62	56	52		61	56	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288469
5°	287249
10°	280445
15°	266216
20°	237291
25°	199887
30°	159252
35°	113622
40°	61093
45°	26173
50°	11906
55°	4349
60°	2138
65°	1686
70°	1555
75°	678
80°	1010
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.7	10.5
10°-20°	1300.2	27.6
20°-30°	1506.0	32.0
30°-40°	1041.3	22.1
40°-50°	300.7	6.4
50°-60°	51.8	1.1
60°-70°	13.2	0.3
70°-80°	5.1	0.1
80°-90°	1.3	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°	3298.9	70.0
0°-40°	4340.2	92.1
0°-60°	4692.7	99.6
0°-90°	4712.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4712.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5262	
5°	5220	493
15°	4691	1300
25°	3305	1506
35°	1698	1041
45°	338	301
55°	46	52
65°	13	13
75°	3	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5262.1
2.5°	5239.3
5°	5219.9
7.5°	5161.4
10°	5038.0
12.5°	4888.7
15°	4690.7
17.5°	4411.5
20°	4067.5
22.5°	3687.7
25°	3304.6
27.5°	2911.9
30°	2515.8
32.5°	2119.8
35°	1697.8
37.5°	1259.5
40°	853.7
42.5°	538.9
45°	337.6
47.5°	217.5
50°	139.6
52.5°	84.4
55°	45.5
57.5°	26.0
60°	19.5
62.5°	16.2
65°	13.0
67.5°	9.7
70°	9.7
72.5°	6.5
75°	3.2
77.5°	3.2
80°	3.2
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)