

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: P582813

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582813
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: HC650D010-HM64560935-61MDW
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: 4481.9 lumens
Efficiency: N/A
Efficacy: 93.4 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

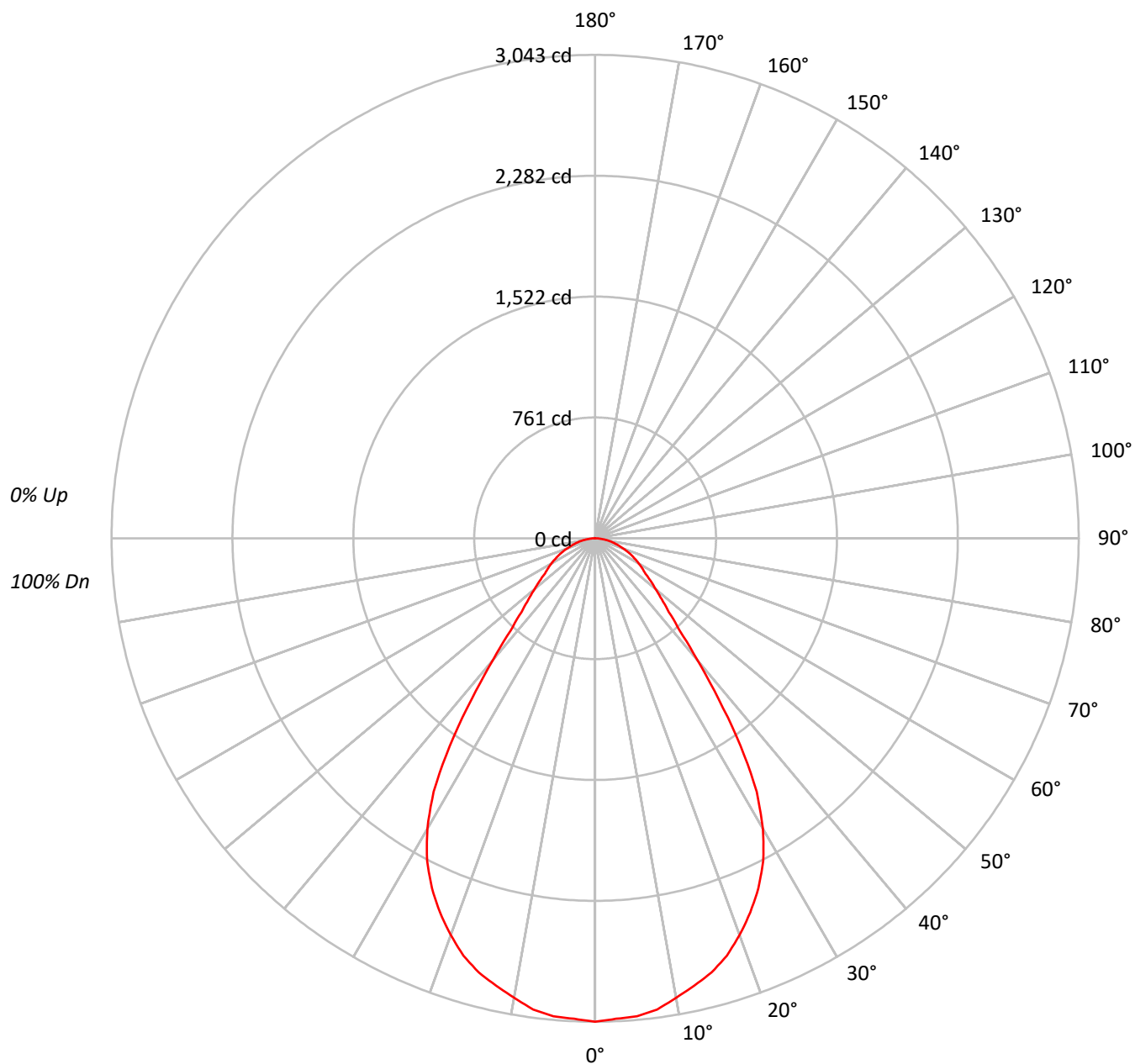
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	166840
5°	166233
10°	163457
15°	160574
20°	155028
25°	147002
30°	133704
35°	106836
40°	71284
45°	50819
50°	42335
55°	36902
60°	34855
65°	32831
70°	30149
75°	28171
80°	25603
85°	22455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	6.4
10°-20°	794.4	17.7
20°-30°	1110.1	24.8
30°-40°	977.9	21.8
40°-50°	528.3	11.8
50°-60°	353.2	7.9
60°-70°	250.4	5.6
70°-80°	140.7	3.1
80°-90°	41.1	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°	2190.3	48.9
0°-40°	3168.1	70.7
0°-60°	4049.7	90.4
0°-90°	4481.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4481.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3043	
5°	3021	286
15°	2829	794
25°	2430	1110
35°	1596	978
45°	656	528
55°	386	353
65°	253	250
75°	133	141
85°	36	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3043.4
2.5°	3027.3
5°	3020.8
7.5°	2991.6
10°	2936.4
12.5°	2884.5
15°	2829.3
17.5°	2754.7
20°	2657.4
22.5°	2550.3
25°	2430.3
27.5°	2290.7
30°	2112.2
32.5°	1891.6
35°	1596.4
37.5°	1275.1
40°	996.1
42.5°	785.2
45°	655.5
47.5°	567.8
50°	496.4
52.5°	438.0
55°	386.1
57.5°	350.4
60°	317.9
62.5°	285.6
65°	253.1
67.5°	220.6
70°	188.1
72.5°	159.0
75°	133.0
77.5°	107.1
80°	81.1
82.5°	58.5
85°	35.7
87.5°	16.2
90°	0.0



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— 0°-180°







(END OF REPORT)