

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: P582816

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560935-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4417.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

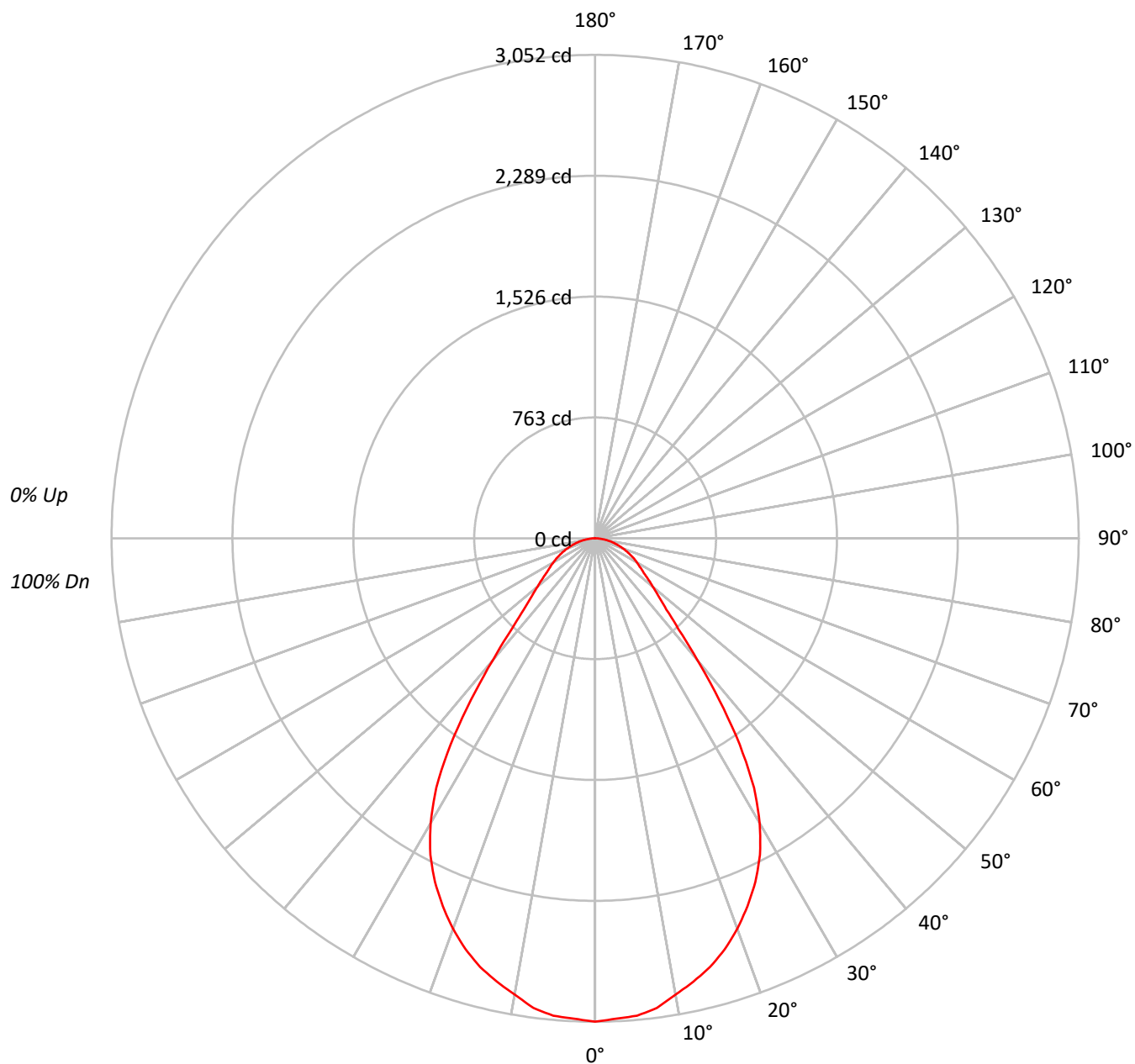
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79		
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63		
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57		
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44		
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	167300
5°	166508
10°	162828
15°	159013
20°	153033
25°	144728
30°	131533
35°	106461
40°	71784
45°	49331
50°	40434
55°	35373
60°	33462
65°	31586
70°	29668
75°	28192
80°	25603
85°	22455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	6.5
10°-20°	786.8	17.8
20°-30°	1093.1	24.7
30°-40°	973.3	22.0
40°-50°	516.7	11.7
50°-60°	337.9	7.6
60°-70°	242.1	5.5
70°-80°	140.4	3.2
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°	2165.6	49.0
0°-40°	3138.9	71.1
0°-60°	3993.4	90.4
0°-90°	4417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4417.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3052	
5°	3026	286
15°	2802	787
25°	2393	1093
35°	1591	973
45°	636	517
55°	370	338
65°	244	242
75°	133	140
85°	36	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3051.8
2.5°	3035.5
5°	3025.8
7.5°	2990.1
10°	2925.1
12.5°	2866.8
15°	2801.8
17.5°	2720.7
20°	2623.2
22.5°	2512.8
25°	2392.7
27.5°	2253.1
30°	2077.9
32.5°	1866.8
35°	1590.8
37.5°	1285.6
40°	1003.1
42.5°	779.2
45°	636.3
47.5°	542.2
50°	474.1
52.5°	418.8
55°	370.1
57.5°	334.3
60°	305.2
62.5°	276.0
65°	243.5
67.5°	214.2
70°	185.1
72.5°	159.1
75°	133.1
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)