

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: P582758

Luminaire Tested: **HC650D010-HM64560840-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560840-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5376.6 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

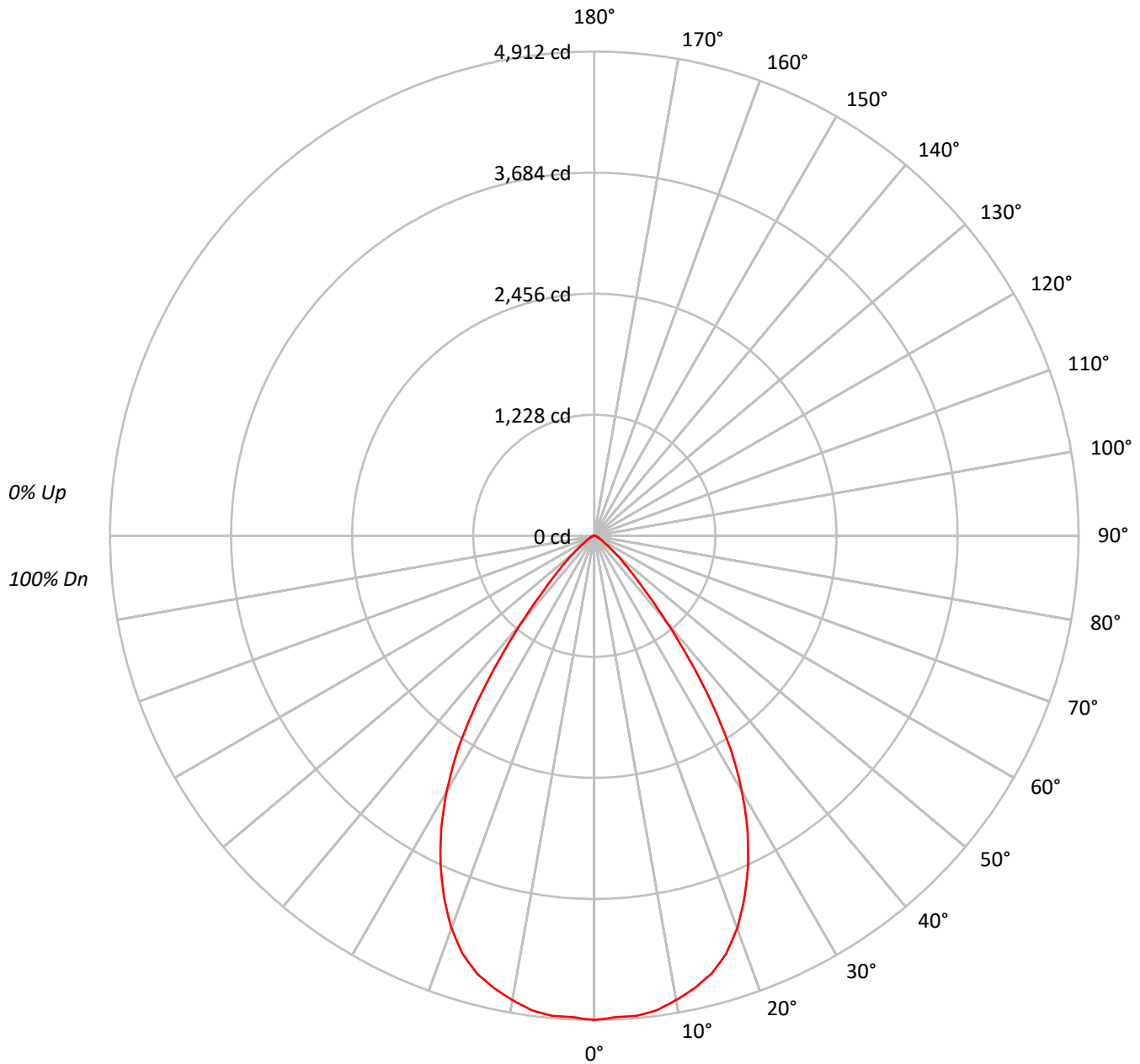
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72		
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67		
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62		
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57		
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50		
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	269282
5°	269056
10°	266250
15°	260898
20°	247145
25°	223186
30°	189592
35°	139983
40°	80959
45°	42966
50°	24281
55°	12702
60°	8322
65°	5915
70°	4264
75°	3219
80°	2399
85°	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.3	8.6
10°-20°	1285.8	23.9
20°-30°	1678.2	31.2
30°-40°	1282.4	23.9
40°-50°	464.3	8.6
50°-60°	134.9	2.5
60°-70°	48.2	0.9
70°-80°	16.5	0.3
80°-90°	3.1	0.1
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°	3427.3	63.7
0°-40°	4709.7	87.6
0°-60°	5308.9	98.7
0°-90°	5376.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5376.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4912	
5°	4889	463
15°	4597	1286
25°	3690	1678
35°	2092	1282
45°	554	464
55°	133	135
65°	46	48
75°	15	16
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4912.1
2.5°	4889.3
5°	4889.3
7.5°	4855.2
10°	4783.0
12.5°	4699.6
15°	4597.0
17.5°	4445.2
20°	4236.4
22.5°	3978.3
25°	3689.8
27.5°	3363.3
30°	2995.1
32.5°	2581.3
35°	2091.7
37.5°	1579.1
40°	1131.3
42.5°	781.9
45°	554.2
47.5°	398.6
50°	284.7
52.5°	201.2
55°	132.9
57.5°	95.0
60°	75.9
62.5°	60.7
65°	45.6
67.5°	37.9
70°	26.6
72.5°	19.0
75°	15.2
77.5°	11.3
80°	7.6
82.5°	3.8
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)