

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: P582733

Luminaire Tested: **HC650D010-HM64560830-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560830-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5091.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

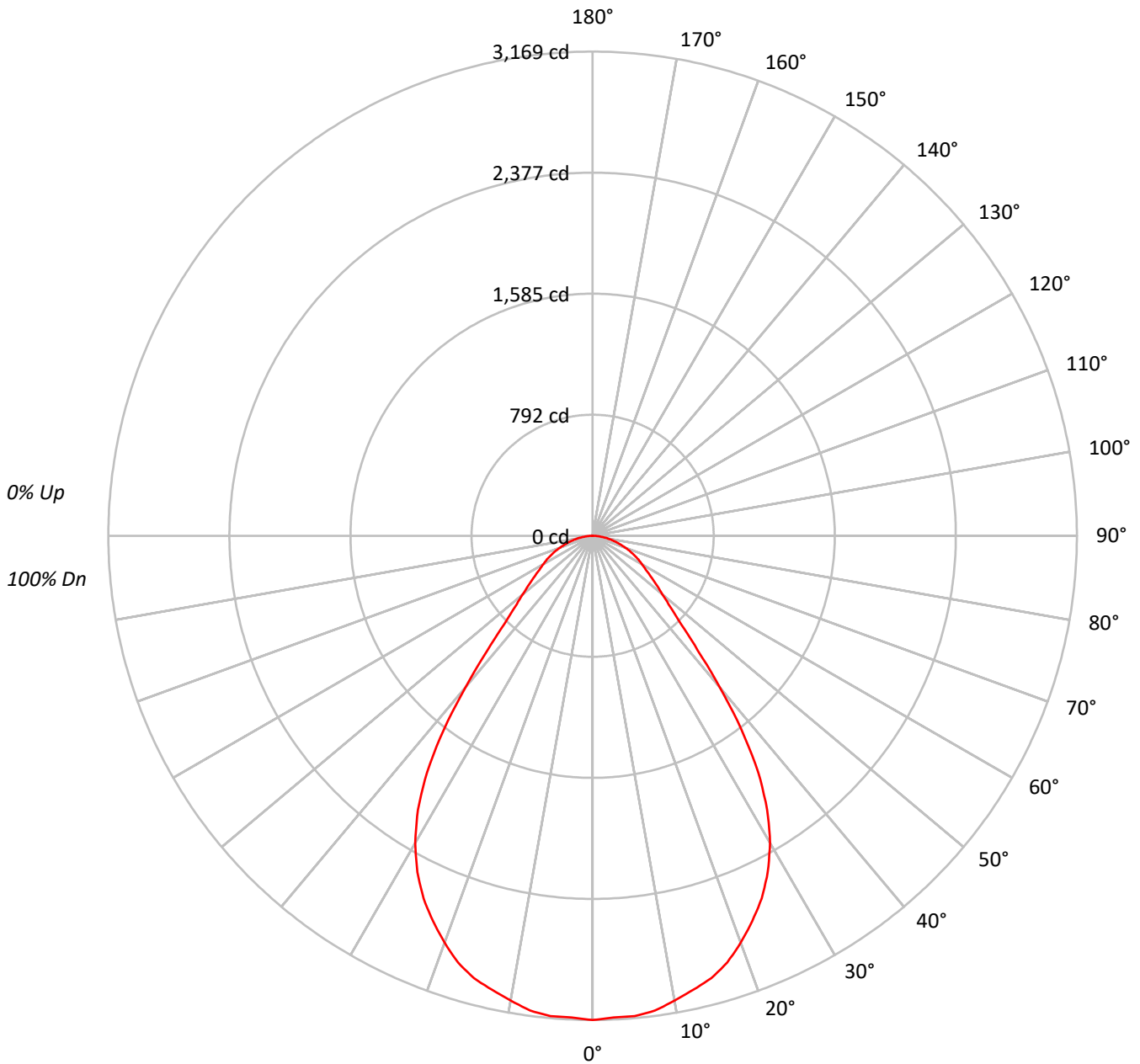
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173736
5°	173635
10°	171952
15°	170171
20°	165360
25°	158380
30°	146985
35°	126465
40°	92316
45°	63247
50°	50847
55°	44319
60°	40907
65°	38902
70°	36320
75°	33974
80°	30844
85°	26292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	5.9
10°-20°	842.1	16.5
20°-30°	1197.6	23.5
30°-40°	1153.0	22.6
40°-50°	663.4	13.0
50°-60°	420.4	8.3
60°-70°	297.6	5.8
70°-80°	169.7	3.3
80°-90°	48.4	1.0
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°	2338.8	45.9
0°-40°	3491.8	68.6
0°-60°	4575.6	89.9
0°-90°	5091.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3169	
5°	3155	299
15°	2998	842
25°	2618	1198
35°	1890	1153
45°	816	663
55°	464	420
65°	300	298
75°	160	170
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3169.2
2.5°	3155.3
5°	3155.3
7.5°	3134.4
10°	3089.0
12.5°	3043.7
15°	2998.4
17.5°	2928.6
20°	2834.5
22.5°	2729.9
25°	2618.4
27.5°	2482.3
30°	2322.0
32.5°	2126.7
35°	1889.7
37.5°	1600.3
40°	1290.0
42.5°	1018.0
45°	815.8
47.5°	686.9
50°	596.2
52.5°	522.9
55°	463.7
57.5°	411.5
60°	373.1
62.5°	338.2
65°	299.9
67.5°	265.0
70°	226.6
72.5°	191.8
75°	160.4
77.5°	129.0
80°	97.7
82.5°	69.7
85°	41.8
87.5°	17.5
90°	0.0



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— 0°-180°







(END OF REPORT)