

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: P593341

Luminaire Tested: **HC650D010-HM64560850-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560850-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5968.5 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

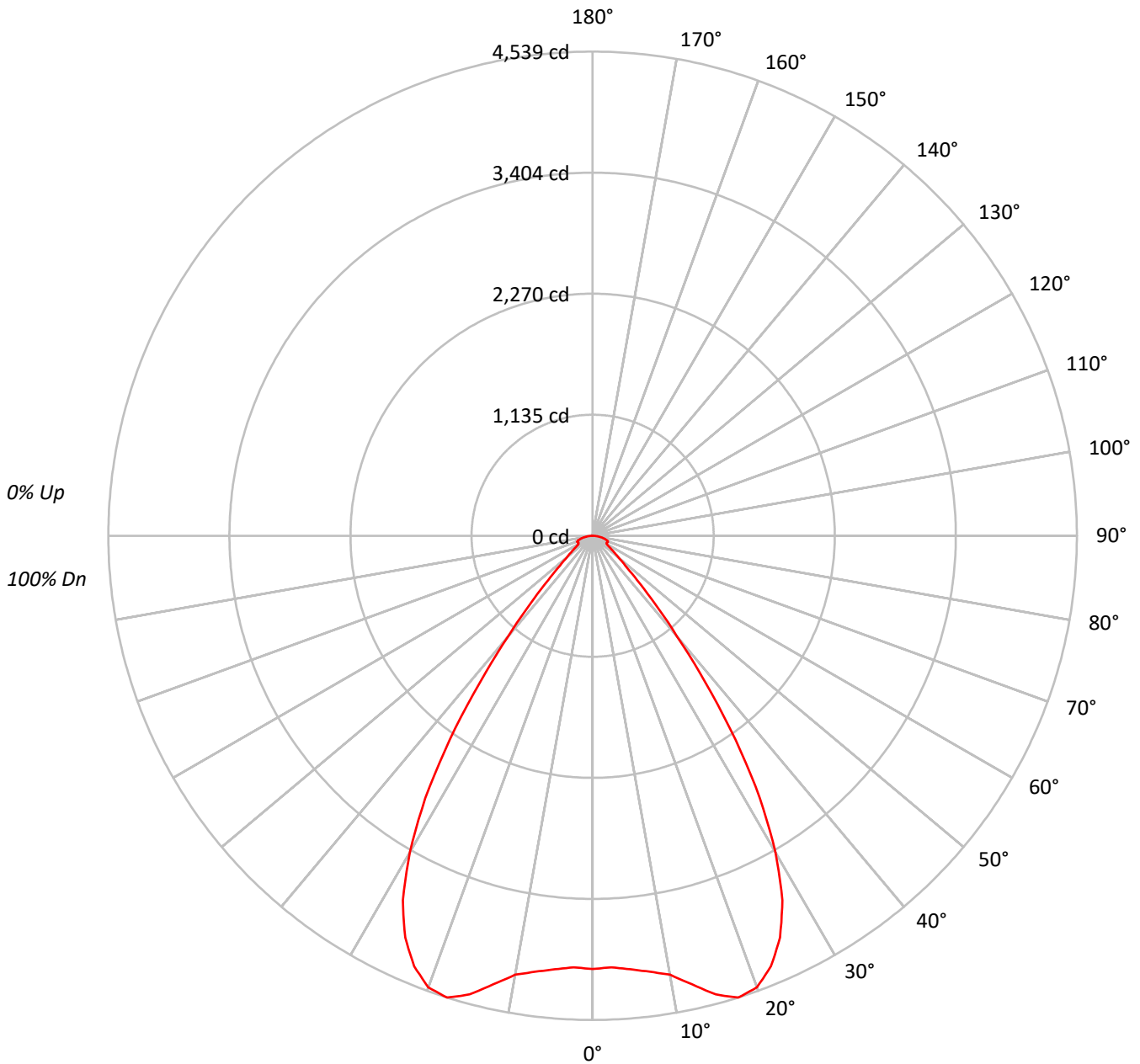
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222614
5°	224499
10°	232594
15°	252640
20°	262797
25°	251361
30°	216926
35°	156198
40°	87986
45°	45609
50°	27189
55°	19584
60°	16643
65°	19198
70°	24331
75°	25714
80°	25161
85°	23839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	6.6
10°-20°	1255.5	21.0
20°-30°	1876.6	31.4
30°-40°	1434.5	24.0
40°-50°	501.1	8.4
50°-60°	190.9	3.2
60°-70°	149.8	2.5
70°-80°	126.7	2.1
80°-90°	40.8	0.7
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°	3524.7	59.1
0°-40°	4959.3	83.1
0°-60°	5651.3	94.7
0°-90°	5968.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5968.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4061	
5°	4080	393
15°	4452	1256
25°	4156	1877
35°	2334	1435
45°	588	501
55°	205	191
65°	148	150
75°	121	127
85°	38	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4060.8
2.5°	4049.3
5°	4079.6
7.5°	4121.5
10°	4178.4
12.5°	4307.3
15°	4451.5
17.5°	4538.9
20°	4504.7
22.5°	4368.0
25°	4155.6
27.5°	3851.9
30°	3426.9
32.5°	2918.4
35°	2334.0
37.5°	1730.5
40°	1229.5
42.5°	861.4
45°	588.3
47.5°	413.7
50°	318.8
52.5°	250.5
55°	204.9
57.5°	167.0
60°	151.8
62.5°	148.0
65°	148.0
67.5°	155.7
70°	151.8
72.5°	140.4
75°	121.4
77.5°	102.5
80°	79.7
82.5°	56.9
85°	37.9
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)