

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: P582740

Luminaire Tested: **HC650D010-HM64560835-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582740
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-HM64560835-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5163.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

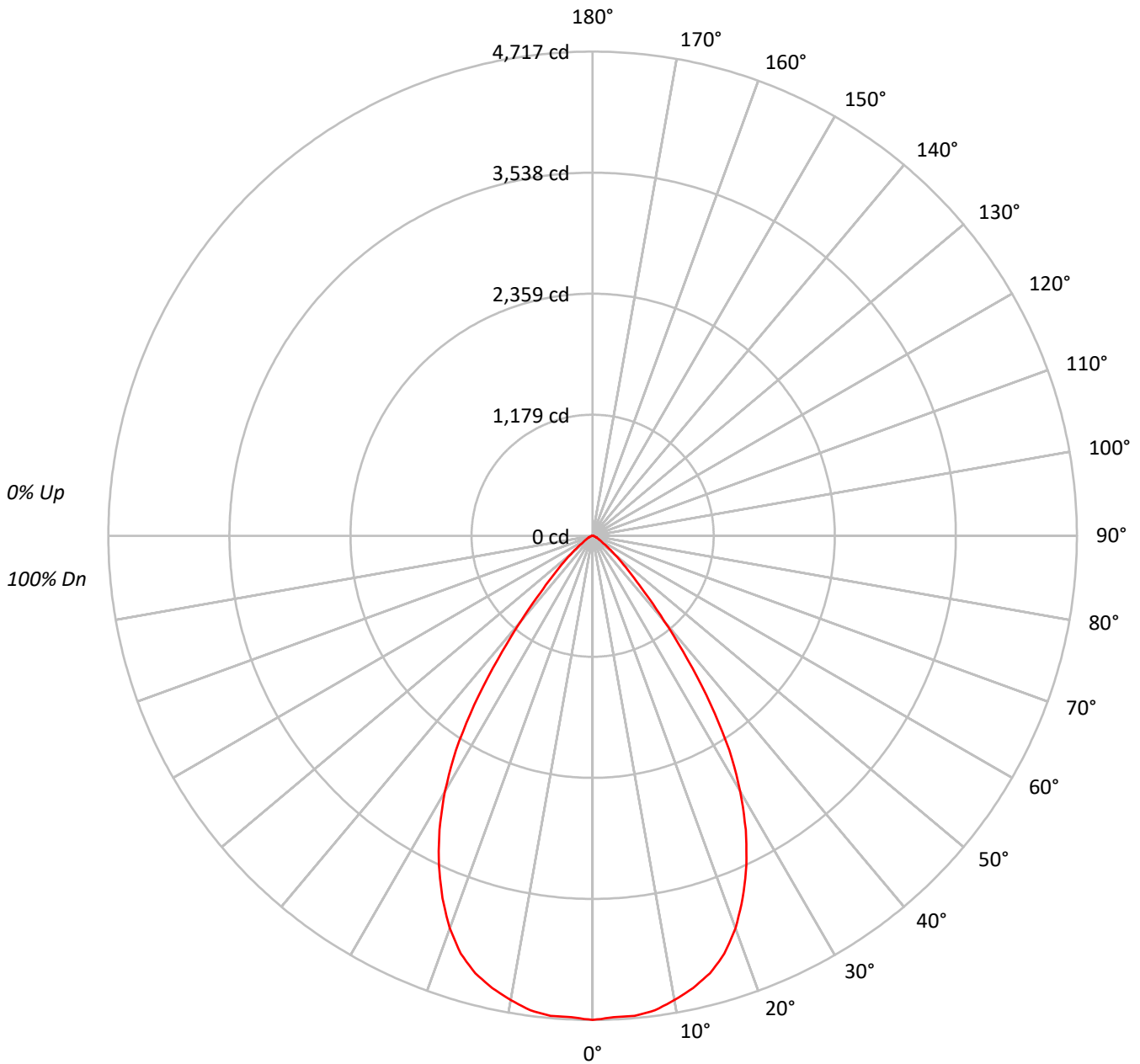
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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																											
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°	258581
5°	258369
10°	255673
15°	250529
20°	237326
25°	214313
30°	182060
35°	134415
40°	77739
45°	41260
50°	23317
55°	12186
60°	7993
65°	5669
70°	4087
75°	3071
80°	2305
85°	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.9	8.6
10°-20°	1234.7	23.9
20°-30°	1611.5	31.2
30°-40°	1231.5	23.9
40°-50°	445.9	8.6
50°-60°	129.5	2.5
60°-70°	46.3	0.9
70°-80°	15.8	0.3
80°-90°	3.0	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°	3291.1	63.7
0°-40°	4522.5	87.6
0°-60°	5097.9	98.7
0°-90°	5163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5163.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4717	
5°	4695	445
15°	4414	1235
25°	3543	1611
35°	2008	1231
45°	532	446
55°	128	129
65°	44	46
75°	14	16
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4716.9
2.5°	4695.1
5°	4695.1
7.5°	4662.2
10°	4593.0
12.5°	4512.8
15°	4414.3
17.5°	4268.6
20°	4068.1
22.5°	3820.2
25°	3543.1
27.5°	3229.7
30°	2876.1
32.5°	2478.8
35°	2008.5
37.5°	1516.4
40°	1086.3
42.5°	750.9
45°	532.2
47.5°	382.8
50°	273.4
52.5°	193.2
55°	127.5
57.5°	91.2
60°	72.9
62.5°	58.3
65°	43.7
67.5°	36.5
70°	25.5
72.5°	18.2
75°	14.5
77.5°	11.0
80°	7.3
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)