

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: P582708

Luminaire Tested: **HC650D010-HM64560827-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582708  
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-HM64560827-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4394.7 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

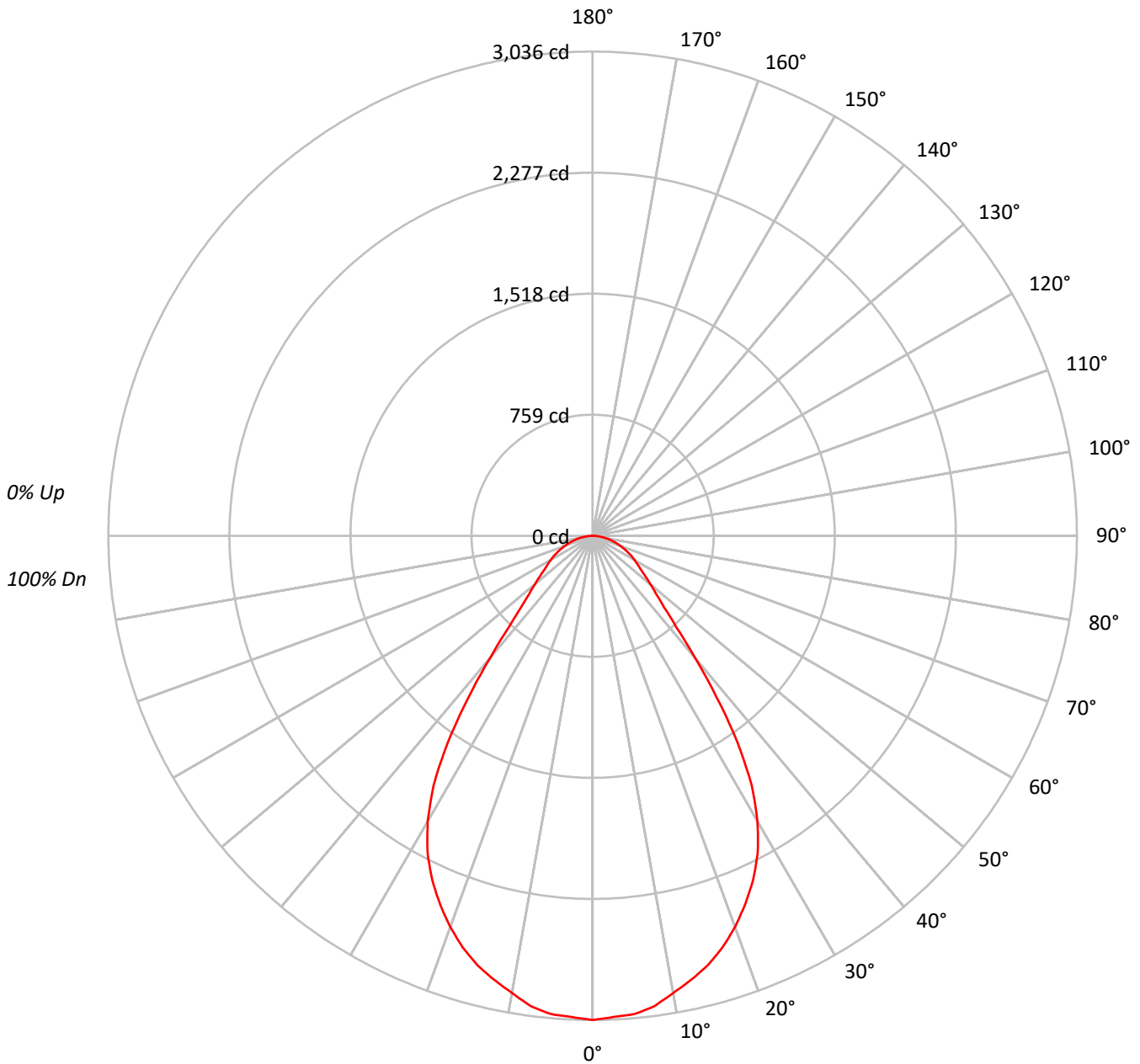
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	166456
5°	165667
10°	162004
15°	158207
20°	152263
25°	144002
30°	130862
35°	105926
40°	71434
45°	49083
50°	40220
55°	35191
60°	33287
65°	31417
70°	29508
75°	28043
80°	25508
85°	22329



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.2	6.5
10°-20°	782.8	17.8
20°-30°	1087.6	24.7
30°-40°	968.4	22.0
40°-50°	514.1	11.7
50°-60°	336.2	7.6
60°-70°	240.9	5.5
70°-80°	139.7	3.2
80°-90°	40.9	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°	2154.7	49.0
0°-40°	3123.0	71.1
0°-60°	3973.2	90.4
0°-90°	4394.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3036	
5°	3010	284
15°	2788	783
25°	2381	1088
35°	1583	968
45°	633	514
55°	368	336
65°	242	241
75°	132	140
85°	36	41
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3036.4
2.5°	3020.2
5°	3010.5
7.5°	2974.9
10°	2910.3
12.5°	2852.2
15°	2787.6
17.5°	2706.9
20°	2610.0
22.5°	2500.2
25°	2380.7
27.5°	2241.8
30°	2067.3
32.5°	1857.4
35°	1582.8
37.5°	1279.1
40°	998.2
42.5°	775.2
45°	633.1
47.5°	539.5
50°	471.6
52.5°	416.7
55°	368.2
57.5°	332.7
60°	303.6
62.5°	274.6
65°	242.2
67.5°	213.2
70°	184.1
72.5°	158.3
75°	132.4
77.5°	106.6
80°	80.8
82.5°	58.1
85°	35.5
87.5°	16.2
90°	0.0



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— 0°-180°







(END OF REPORT)