

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: P593169

Luminaire Tested: **HC625D010-HM60525850-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC625D010-HM60525850-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2680.8 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

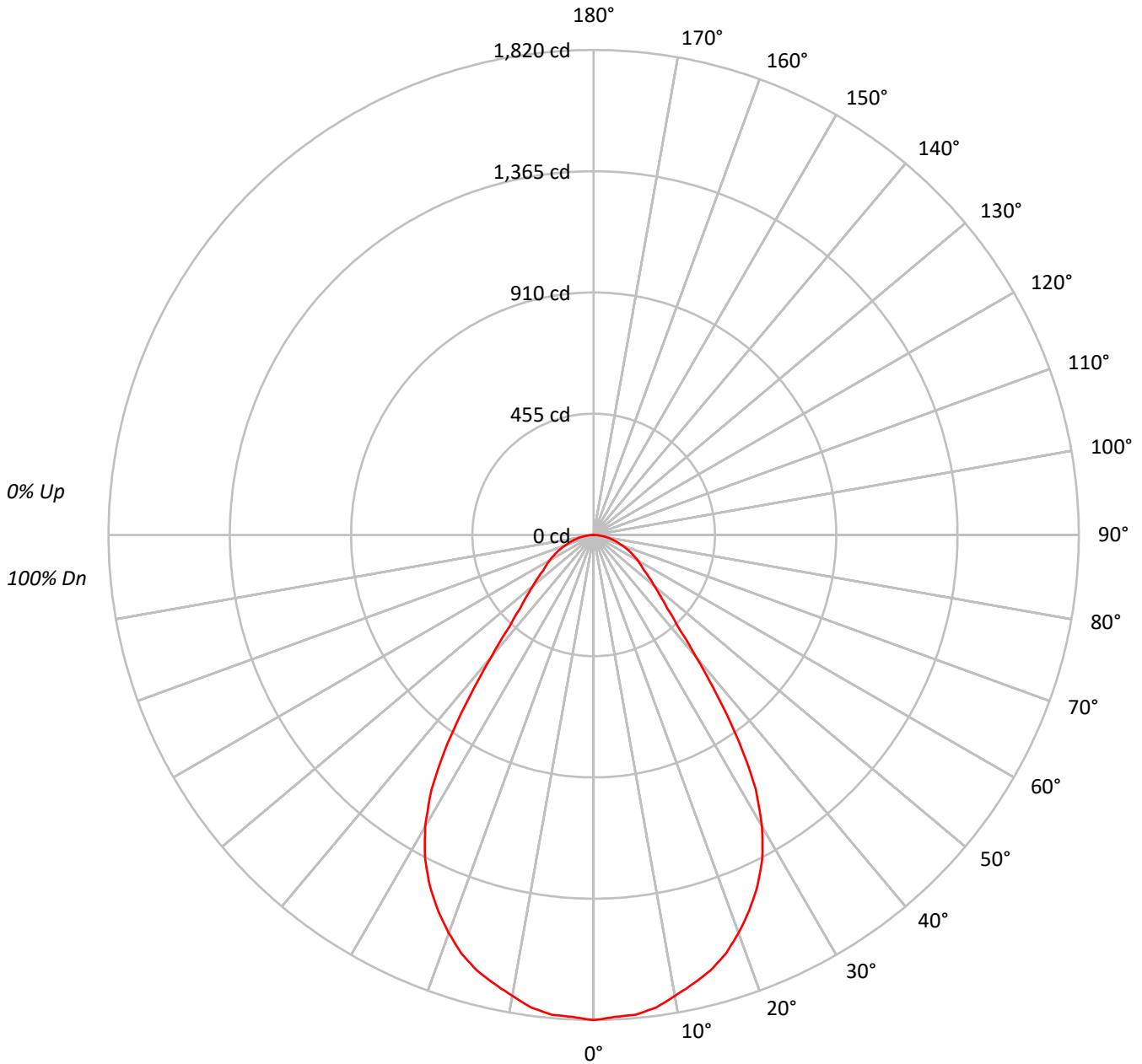
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																			

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

	0°
0°	99800
5°	99438
10°	97777
15°	96050
20°	92735
25°	87930
30°	79981
35°	63905
40°	42637
45°	30399
50°	25330
55°	22069
60°	20854
65°	19639
70°	18032
75°	16860
80°	15311
85°	13398



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.9	6.4
10°-20°	475.2	17.7
20°-30°	664.0	24.8
30°-40°	584.9	21.8
40°-50°	316.0	11.8
50°-60°	211.3	7.9
60°-70°	149.8	5.6
70°-80°	84.2	3.1
80°-90°	24.5	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°	1310.1	48.9
0°-40°	1895.1	70.7
0°-60°	2422.4	90.4
0°-90°	2680.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1820	
5°	1807	171
15°	1692	475
25°	1454	664
35°	955	585
45°	392	316
55°	231	211
65°	151	150
75°	80	84
85°	21	25
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1820.5
2.5°	1810.8
5°	1807.0
7.5°	1789.4
10°	1756.5
12.5°	1725.4
15°	1692.4
17.5°	1647.7
20°	1589.6
22.5°	1525.5
25°	1453.7
27.5°	1370.2
30°	1263.5
32.5°	1131.5
35°	954.9
37.5°	762.7
40°	595.8
42.5°	469.6
45°	392.1
47.5°	339.7
50°	297.0
52.5°	262.0
55°	230.9
57.5°	209.6
60°	190.2
62.5°	170.8
65°	151.4
67.5°	131.9
70°	112.5
72.5°	95.1
75°	79.6
77.5°	64.0
80°	48.5
82.5°	35.0
85°	21.3
87.5°	9.6
90°	0.0



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— 0°-180°







(END OF REPORT)