

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: P582060

Luminaire Tested: **HC625D010-HM60525927-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582060  
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: HC625D010-HM60525927-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1907.8 lumens  
Efficiency: N/A  
Efficacy: 71.2 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

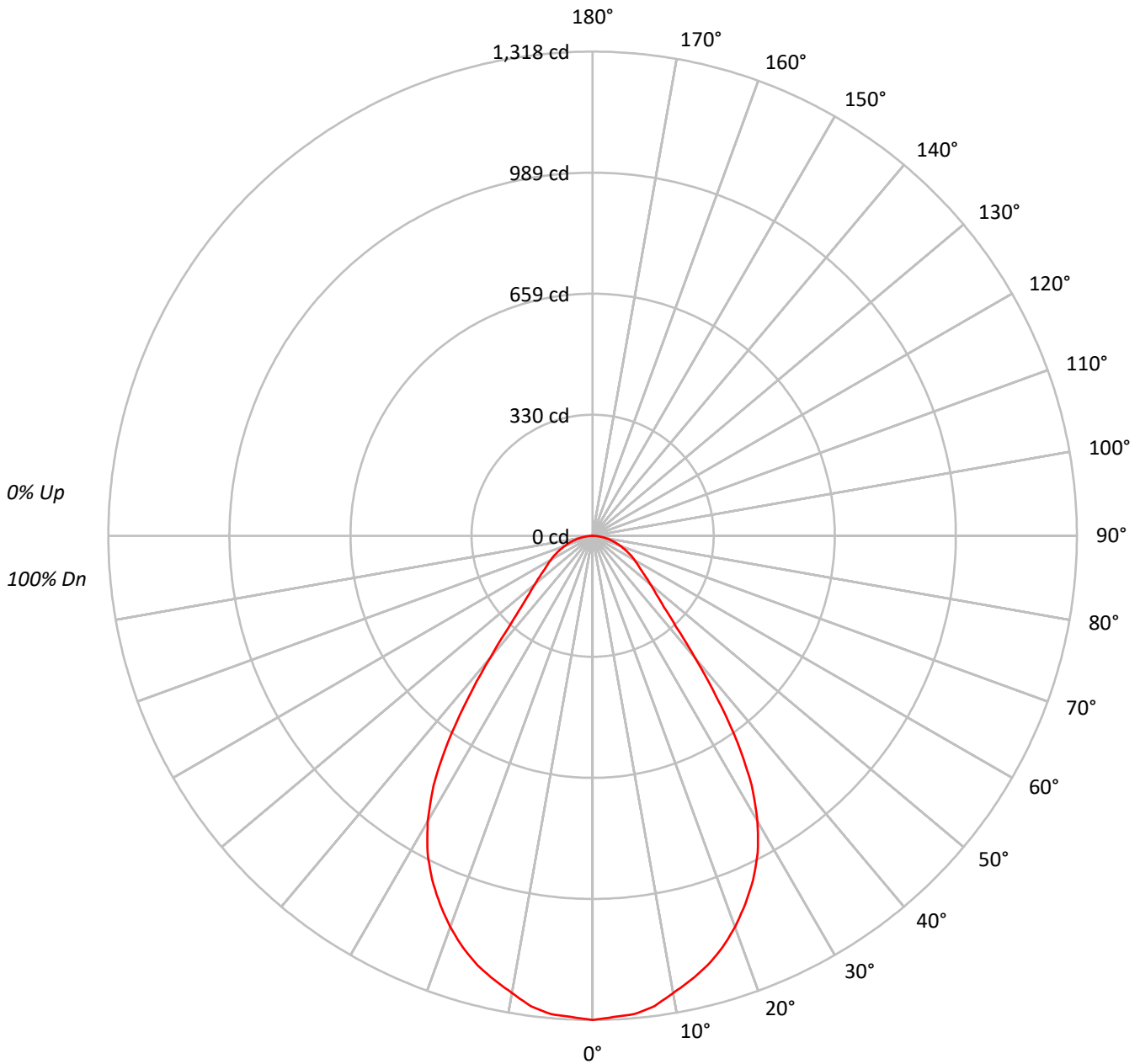
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	83	86	83	81	79																											
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70																											
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																											
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57																											
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52																											
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48																											
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44																											
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41																											
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38																											

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

	0°
0°	72264
5°	71918
10°	70328
15°	68678
20°	66103
25°	62514
30°	56806
35°	45983
40°	31008
45°	21305
50°	17458
55°	15283
60°	14451
65°	13633
70°	12807
75°	12179
80°	11081
85°	9686



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.4	6.5
10°-20°	339.8	17.8
20°-30°	472.1	24.7
30°-40°	420.4	22.0
40°-50°	223.2	11.7
50°-60°	146.0	7.7
60°-70°	104.6	5.5
70°-80°	60.6	3.2
80°-90°	17.7	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°	935.4	49.0
0°-40°	1355.7	71.1
0°-60°	1724.9	90.4
0°-90°	1907.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1318	
5°	1307	123
15°	1210	340
25°	1034	472
35°	687	420
45°	275	223
55°	160	146
65°	105	105
75°	58	61
85°	15	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1318.2
2.5°	1311.1
5°	1306.9
7.5°	1291.5
10°	1263.4
12.5°	1238.2
15°	1210.1
17.5°	1175.1
20°	1133.1
22.5°	1085.3
25°	1033.5
27.5°	973.2
30°	897.4
32.5°	806.3
35°	687.1
37.5°	555.3
40°	433.3
42.5°	336.6
45°	274.8
47.5°	234.2
50°	204.7
52.5°	180.9
55°	159.9
57.5°	144.5
60°	131.8
62.5°	119.2
65°	105.1
67.5°	92.6
70°	79.9
72.5°	68.7
75°	57.5
77.5°	46.2
80°	35.1
82.5°	25.2
85°	15.4
87.5°	7.0
90°	0.0



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— 0°-180°







(END OF REPORT)