

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: P582103

Luminaire Tested: **HC625D010-HM60525935-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC625D010-HM60525935-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2352.0 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

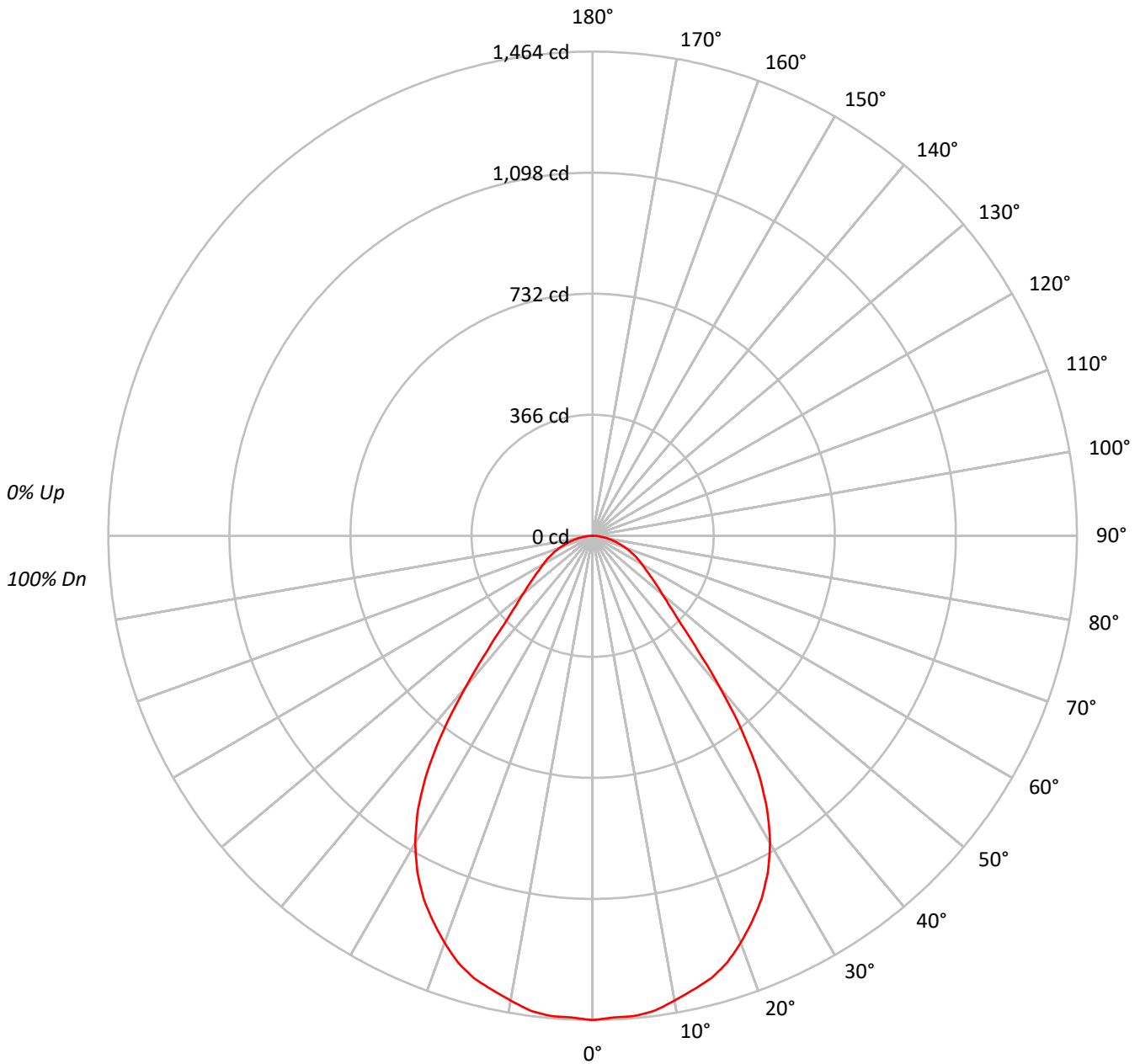
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

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

	0°
0°	80262
5°	80211
10°	79435
15°	78616
20°	76394
25°	73166
30°	67903
35°	58424
40°	42644
45°	29220
50°	23488
55°	20482
60°	18891
65°	17979
70°	16798
75°	15695
80°	14238
85°	12140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	5.9
10°-20°	389.0	16.5
20°-30°	553.3	23.5
30°-40°	532.7	22.6
40°-50°	306.5	13.0
50°-60°	194.2	8.3
60°-70°	137.5	5.8
70°-80°	78.4	3.3
80°-90°	22.3	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°	1080.5	45.9
0°-40°	1613.1	68.6
0°-60°	2113.9	89.9
0°-90°	2352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1464	
5°	1458	138
15°	1385	389
25°	1210	553
35°	873	533
45°	377	306
55°	214	194
65°	139	137
75°	74	78
85°	19	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1464.1
2.5°	1457.6
5°	1457.6
7.5°	1448.0
10°	1427.0
12.5°	1406.1
15°	1385.2
17.5°	1353.0
20°	1309.5
22.5°	1261.1
25°	1209.6
27.5°	1146.9
30°	1072.7
32.5°	982.5
35°	873.0
37.5°	739.3
40°	595.9
42.5°	470.4
45°	376.9
47.5°	317.3
50°	275.4
52.5°	241.6
55°	214.3
57.5°	190.1
60°	172.3
62.5°	156.2
65°	138.6
67.5°	122.4
70°	104.8
72.5°	88.6
75°	74.1
77.5°	59.6
80°	45.1
82.5°	32.2
85°	19.3
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)