

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: P581951

Luminaire Tested: **HC620D010-HM60525935-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581951  
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: HC620D010-HM60525935-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1768.1 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

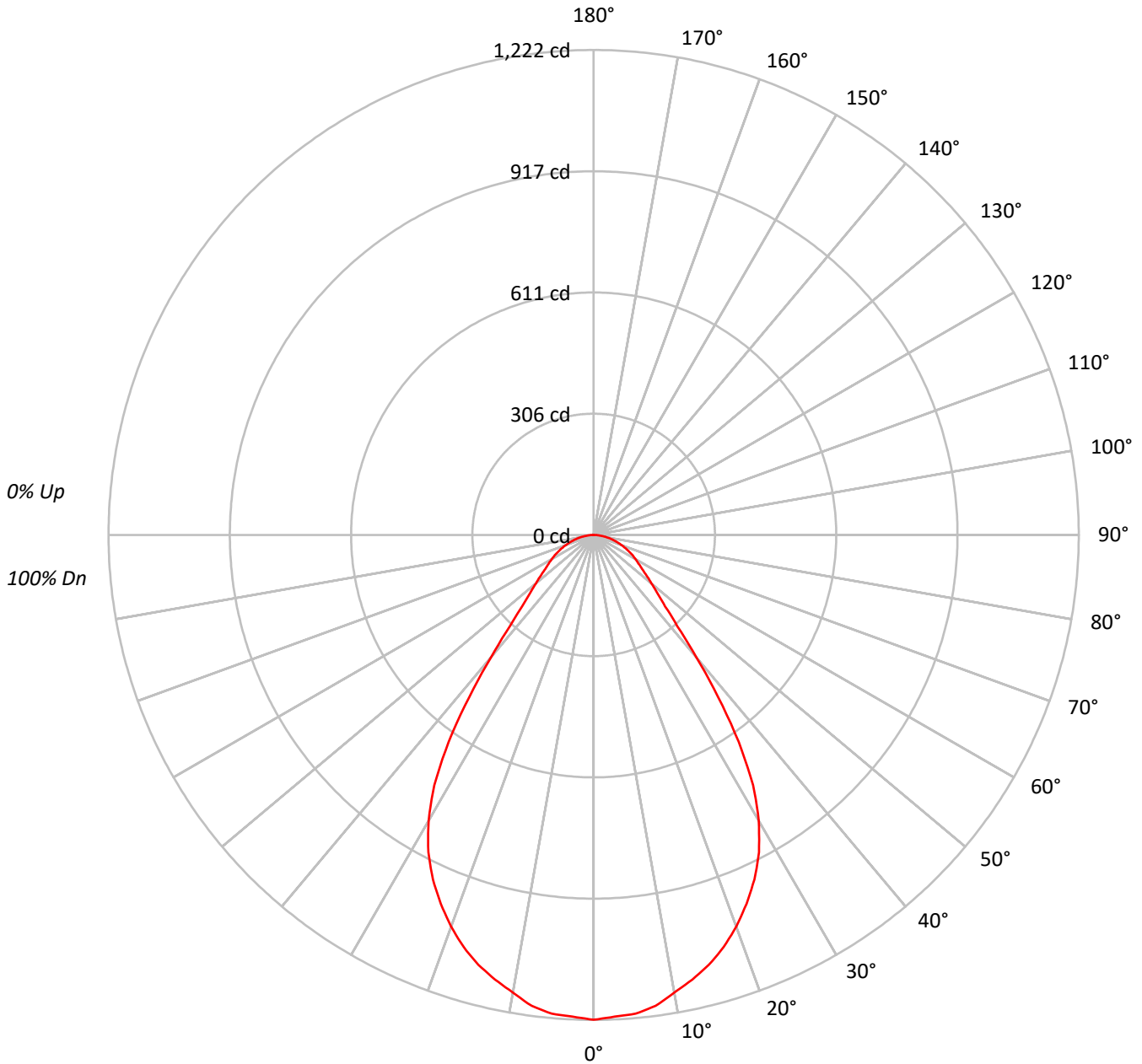
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	66968
5°	66652
10°	65185
15°	63655
20°	61261
25°	57935
30°	52647
35°	42610
40°	28732
45°	19746
50°	16187
55°	14164
60°	13387
65°	12634
70°	11877
75°	11289
80°	10260
85°	8995



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	6.5
10°-20°	315.0	17.8
20°-30°	437.6	24.7
30°-40°	389.6	22.0
40°-50°	206.8	11.7
50°-60°	135.3	7.7
60°-70°	96.9	5.5
70°-80°	56.2	3.2
80°-90°	16.4	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°	866.9	49.0
0°-40°	1256.4	71.1
0°-60°	1598.5	90.4
0°-90°	1768.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1222	
5°	1211	114
15°	1122	315
25°	958	438
35°	637	390
45°	255	207
55°	148	135
65°	97	97
75°	53	56
85°	14	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1221.6
2.5°	1215.1
5°	1211.2
7.5°	1196.9
10°	1171.0
12.5°	1147.5
15°	1121.6
17.5°	1089.0
20°	1050.1
22.5°	1005.9
25°	957.8
27.5°	901.9
30°	831.7
32.5°	747.2
35°	636.7
37.5°	514.6
40°	401.5
42.5°	311.9
45°	254.7
47.5°	217.1
50°	189.8
52.5°	167.7
55°	148.2
57.5°	133.8
60°	122.1
62.5°	110.5
65°	97.4
67.5°	85.8
70°	74.1
72.5°	63.7
75°	53.3
77.5°	42.9
80°	32.5
82.5°	23.3
85°	14.3
87.5°	6.5
90°	0.0



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— 0°-180°







(END OF REPORT)