

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: P593217

Luminaire Tested: **HC630D010-HM63040950-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040950-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3032.2 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

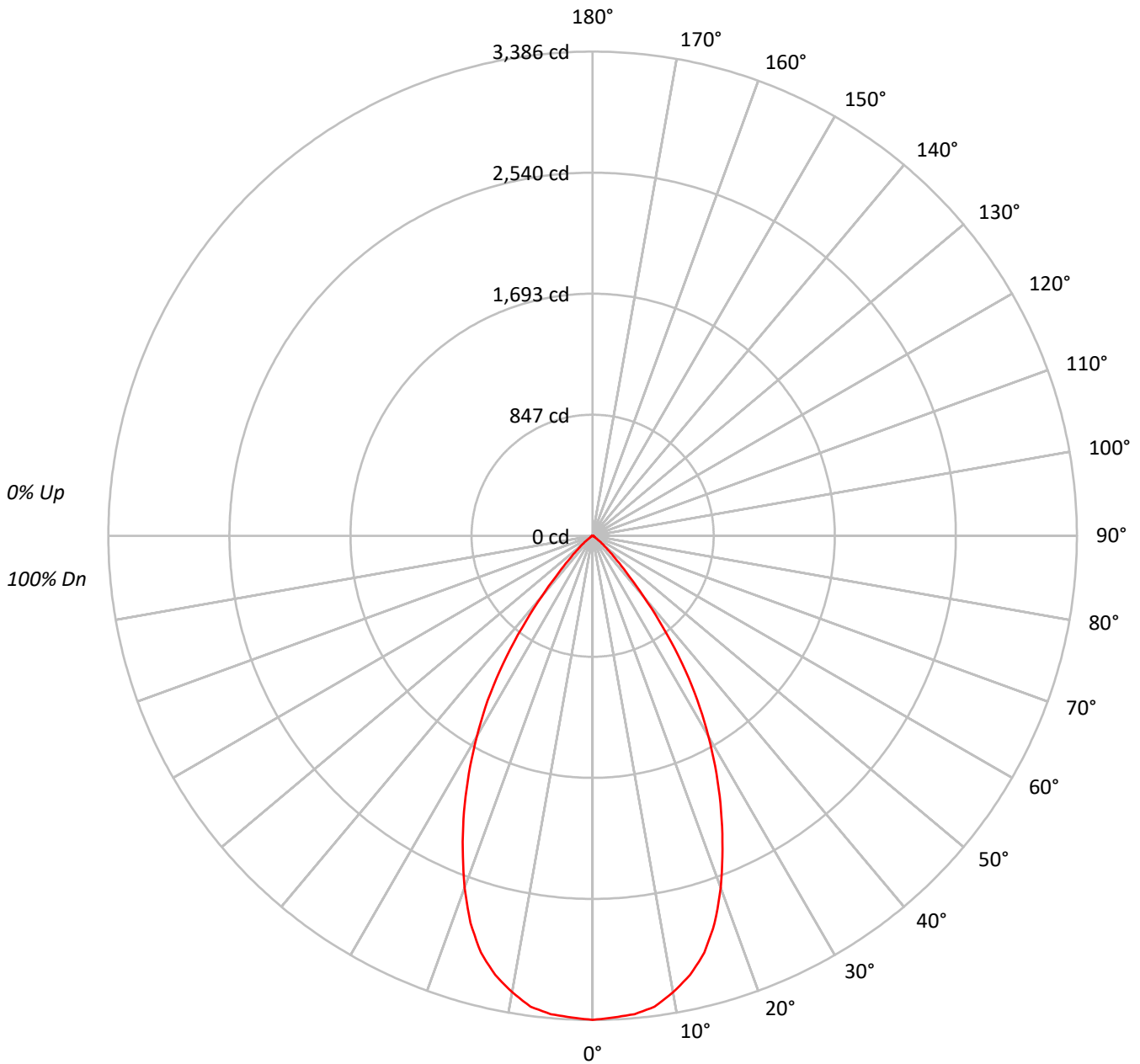
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93		
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61		
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57		
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54		
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51		

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

	0°
0°	185610
5°	184828
10°	180452
15°	171301
20°	152683
25°	128614
30°	102471
35°	73113
40°	39309
45°	16839
50°	7659
55°	2791
60°	1371
65°	1077
70°	1010
75°	445
80°	663
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.1	10.5
10°-20°	836.6	27.6
20°-30°	969.0	32.0
30°-40°	670.0	22.1
40°-50°	193.5	6.4
50°-60°	33.3	1.1
60°-70°	8.5	0.3
70°-80°	3.3	0.1
80°-90°	0.9	0.0
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°	2122.7	70.0
0°-40°	2792.7	92.1
0°-60°	3019.5	99.6
0°-90°	3032.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3032.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3386	
5°	3359	317
15°	3018	837
25°	2126	969
35°	1092	670
45°	217	193
55°	29	33
65°	8	9
75°	2	3
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3385.8
2.5°	3371.3
5°	3358.7
7.5°	3321.1
10°	3241.7
12.5°	3145.6
15°	3018.3
17.5°	2838.6
20°	2617.2
22.5°	2372.8
25°	2126.3
27.5°	1873.6
30°	1618.8
32.5°	1363.9
35°	1092.5
37.5°	810.4
40°	549.3
42.5°	346.7
45°	217.2
47.5°	139.9
50°	89.8
52.5°	54.3
55°	29.2
57.5°	16.8
60°	12.5
62.5°	10.5
65°	8.3
67.5°	6.3
70°	6.3
72.5°	4.2
75°	2.1
77.5°	2.1
80°	2.1
82.5°	2.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)