

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: P593145

Luminaire Tested: **HC620D010-HM60525950-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593145  
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: HC620D010-HM60525950-61NDH  
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: 1910.1 lumens  
Efficiency: N/A  
Efficacy: 95.5 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

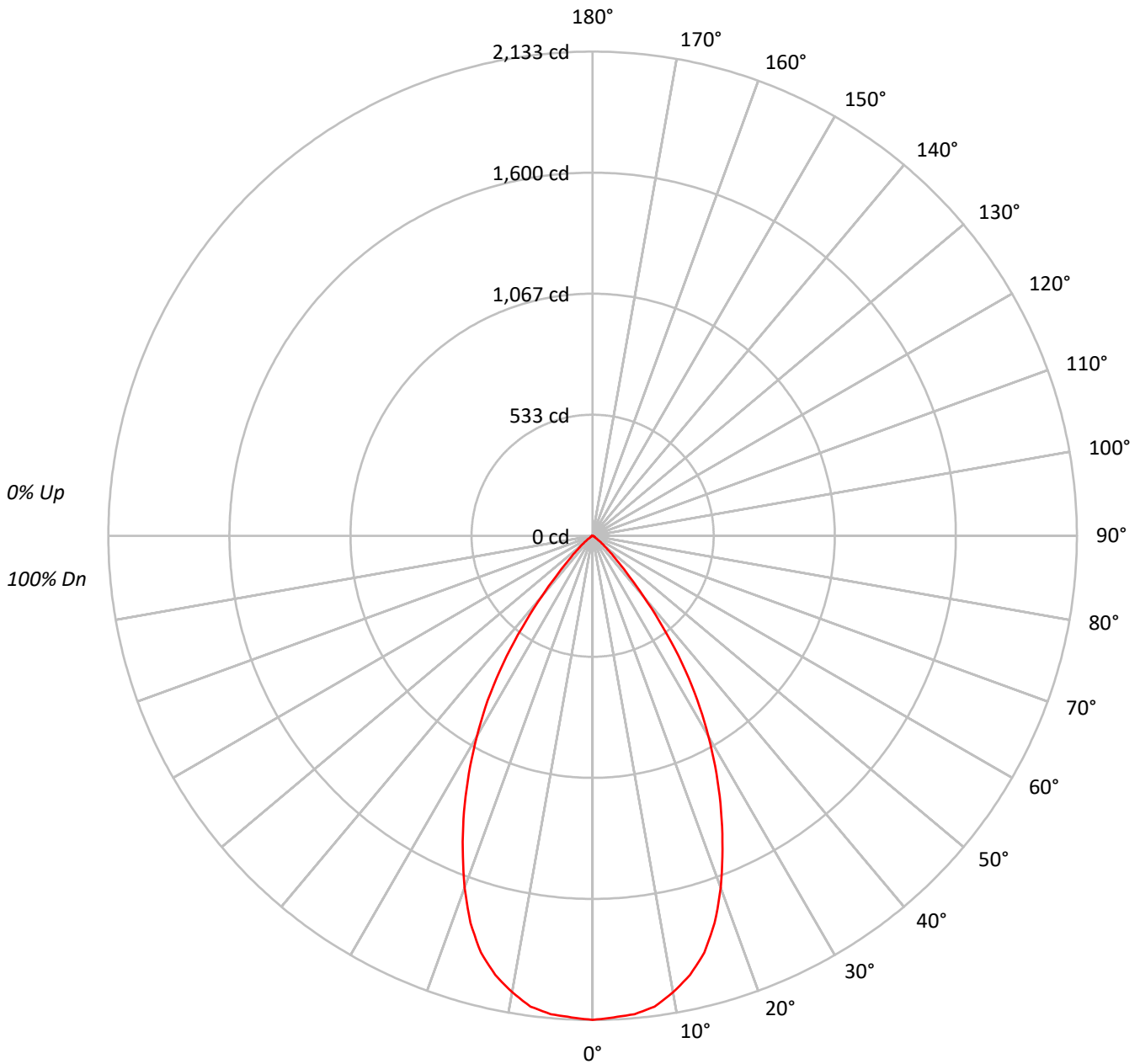
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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	77	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°	116920
5°	116426
10°	113670
15°	107901
20°	96177
25°	81017
30°	64548
35°	46050
40°	24761
45°	10614
50°	4819
55°	1768
60°	866
65°	675
70°	641
75°	297
80°	442
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	10.5
10°-20°	527.0	27.6
20°-30°	610.4	32.0
30°-40°	422.1	22.1
40°-50°	121.9	6.4
50°-60°	21.0	1.1
60°-70°	5.4	0.3
70°-80°	2.1	0.1
80°-90°	0.6	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°	1337.1	70.0
0°-40°	1759.2	92.1
0°-60°	1902.0	99.6
0°-90°	1910.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2133	
5°	2116	200
15°	1901	527
25°	1339	610
35°	688	422
45°	137	122
55°	18	21
65°	5	5
75°	1	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2132.8
2.5°	2123.6
5°	2115.7
7.5°	2092.0
10°	2042.0
12.5°	1981.5
15°	1901.2
17.5°	1788.1
20°	1648.6
22.5°	1494.7
25°	1339.4
27.5°	1180.2
30°	1019.7
32.5°	859.2
35°	688.1
37.5°	510.5
40°	346.0
42.5°	218.4
45°	136.9
47.5°	88.1
50°	56.5
52.5°	34.2
55°	18.5
57.5°	10.5
60°	7.9
62.5°	6.6
65°	5.2
67.5°	4.0
70°	4.0
72.5°	2.6
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)