

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: P581952

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581952  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC620D010-HM60525935-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1839.6 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

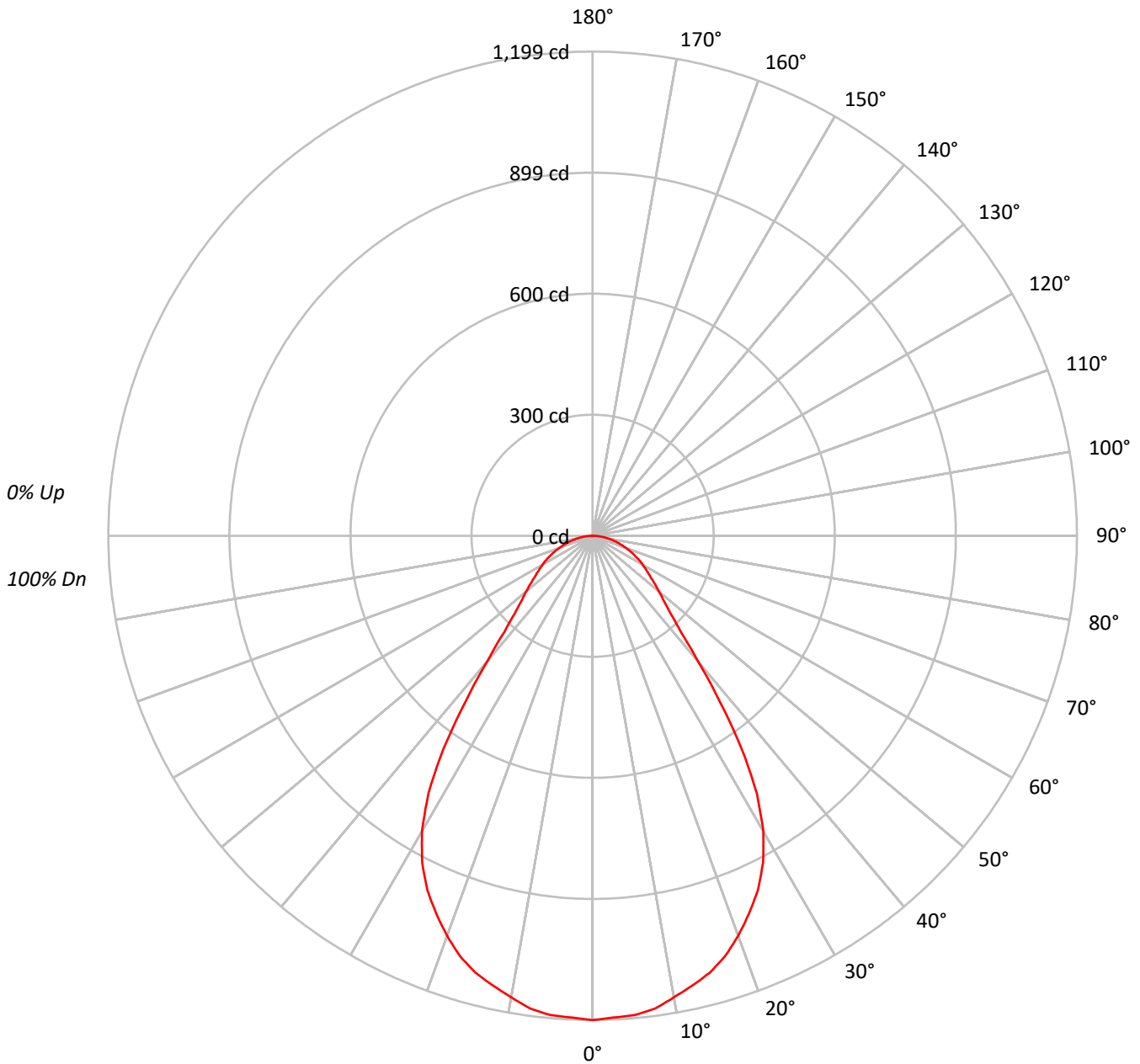
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43				43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°
0°	65751
5°	65573
10°	64595
15°	63570
20°	61477
25°	58552
30°	53470
35°	43045
40°	29011
45°	21157
50°	18285
55°	16516
60°	15679
65°	14826
70°	13945
75°	13217
80°	12312
85°	11448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	6.1
10°-20°	314.5	17.1
20°-30°	441.9	24.0
30°-40°	393.4	21.4
40°-50°	219.8	12.0
50°-60°	156.6	8.5
60°-70°	114.0	6.2
70°-80°	66.0	3.6
80°-90°	20.5	1.1
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°	869.2	47.3
0°-40°	1262.6	68.6
0°-60°	1639.1	89.1
0°-90°	1839.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1839.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1199	
5°	1192	113
15°	1120	315
25°	968	442
35°	643	393
45°	273	220
55°	173	157
65°	114	114
75°	62	66
85°	18	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1199.4
2.5°	1194.2
5°	1191.6
7.5°	1181.2
10°	1160.4
12.5°	1140.9
15°	1120.1
17.5°	1091.5
20°	1053.8
22.5°	1012.2
25°	968.0
27.5°	913.5
30°	844.7
32.5°	756.3
35°	643.2
37.5°	515.9
40°	405.4
42.5°	323.6
45°	272.9
47.5°	239.1
50°	214.4
52.5°	192.3
55°	172.8
57.5°	157.3
60°	143.0
62.5°	130.0
65°	114.3
67.5°	101.4
70°	87.0
72.5°	74.1
75°	62.4
77.5°	50.6
80°	39.0
82.5°	28.6
85°	18.2
87.5°	9.1
90°	0.0



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— 0°-180°







(END OF REPORT)