

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: P582205

Luminaire Tested: **HC630D010-HM63040927-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582205
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: HC630D010-HM63040927-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2447.7 lumens
Efficiency: N/A
Efficacy: 87.4 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

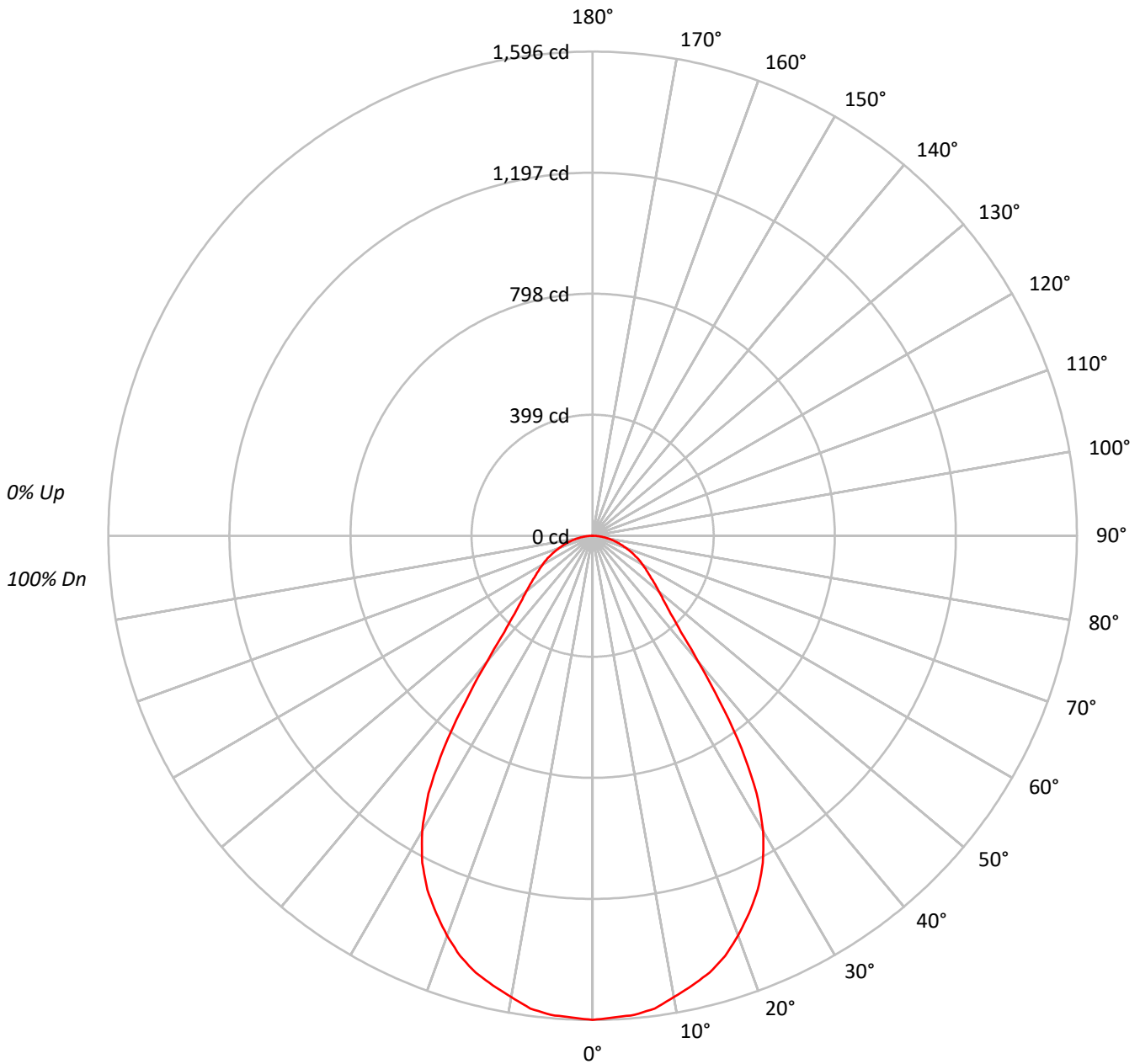
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87488
5°	87244
10°	85943
15°	84586
20°	81802
25°	77908
30°	71138
35°	57273
40°	38601
45°	28150
50°	24323
55°	21982
60°	20854
65°	19743
70°	18561
75°	17580
80°	16353
85°	15284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	6.1
10°-20°	418.5	17.1
20°-30°	588.0	24.0
30°-40°	523.4	21.4
40°-50°	292.5	12.0
50°-60°	208.4	8.5
60°-70°	151.6	6.2
70°-80°	87.8	3.6
80°-90°	27.3	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°	1156.6	47.3
0°-40°	1680.0	68.6
0°-60°	2181.0	89.1
0°-90°	2447.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2447.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1596	
5°	1585	150
15°	1490	419
25°	1288	588
35°	856	523
45°	363	293
55°	230	208
65°	152	152
75°	83	88
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1595.9
2.5°	1589.0
5°	1585.4
7.5°	1571.6
10°	1543.9
12.5°	1518.0
15°	1490.4
17.5°	1452.4
20°	1402.2
22.5°	1346.9
25°	1288.0
27.5°	1215.5
30°	1123.8
32.5°	1006.3
35°	855.8
37.5°	686.4
40°	539.4
42.5°	430.5
45°	363.1
47.5°	318.2
50°	285.2
52.5°	255.9
55°	230.0
57.5°	209.3
60°	190.2
62.5°	172.9
65°	152.2
67.5°	134.8
70°	115.8
72.5°	98.6
75°	83.0
77.5°	67.4
80°	51.8
82.5°	38.0
85°	24.3
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)