

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: P582183

Luminaire Tested: **HC630D010-HM63040840-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040840-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

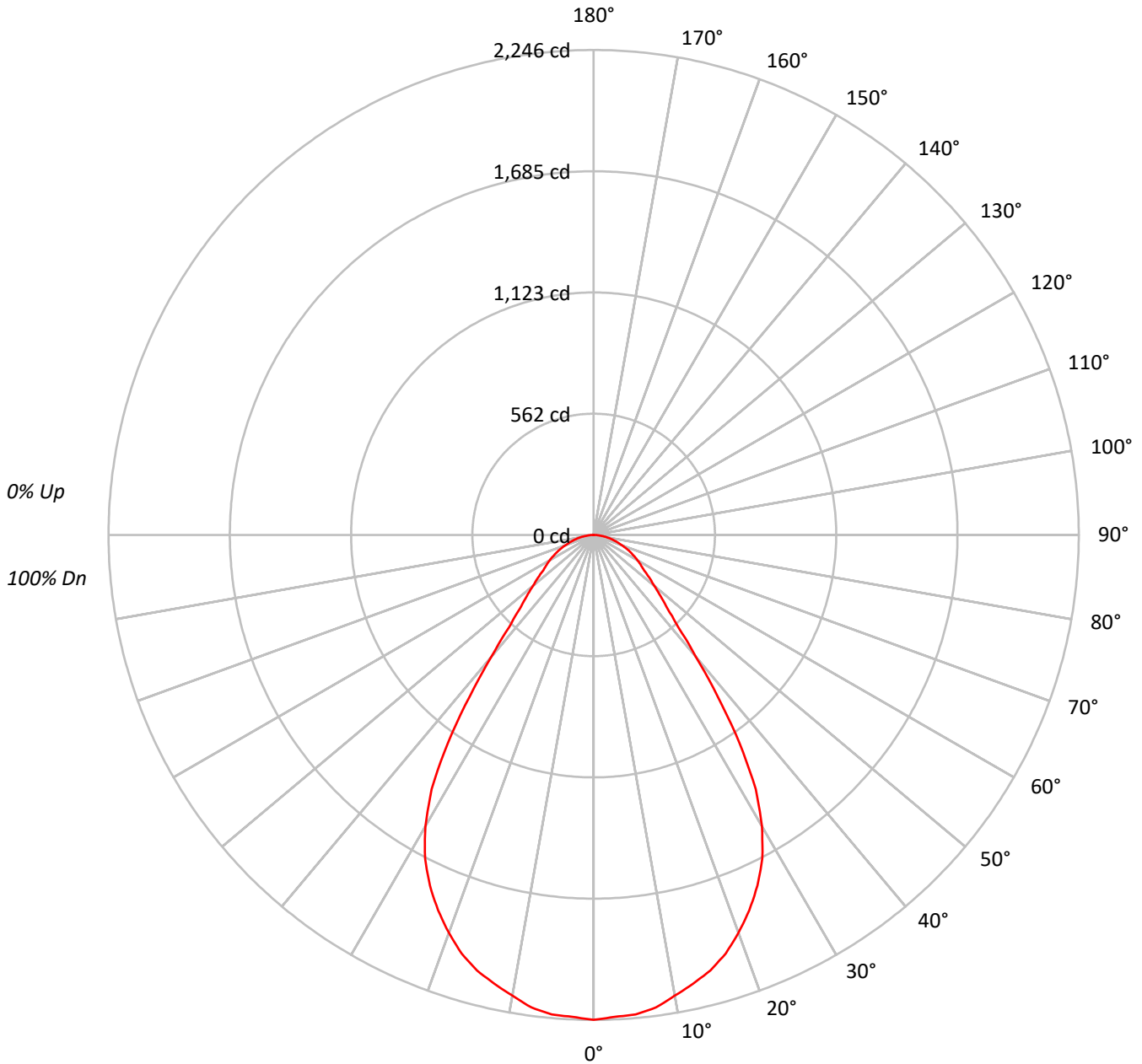
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123110
5°	122661
10°	120611
15°	118491
20°	114390
25°	108466
30°	98654
35°	78829
40°	52599
45°	37492
50°	31240
55°	27230
60°	25722
65°	24231
70°	22263
75°	20800
80°	18879
85°	16542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	6.4
10°-20°	586.2	17.7
20°-30°	819.1	24.8
30°-40°	721.6	21.8
40°-50°	389.8	11.8
50°-60°	260.7	7.9
60°-70°	184.8	5.6
70°-80°	103.9	3.1
80°-90°	30.3	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°	1616.1	48.9
0°-40°	2337.7	70.7
0°-60°	2988.2	90.4
0°-90°	3307.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2246	
5°	2229	211
15°	2088	586
25°	1793	819
35°	1178	722
45°	484	390
55°	285	261
65°	187	185
75°	98	104
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2245.7
2.5°	2233.8
5°	2229.0
7.5°	2207.4
10°	2166.7
12.5°	2128.4
15°	2087.8
17.5°	2032.6
20°	1960.8
22.5°	1881.8
25°	1793.2
27.5°	1690.3
30°	1558.5
32.5°	1395.8
35°	1177.9
37.5°	940.9
40°	735.0
42.5°	579.4
45°	483.6
47.5°	419.0
50°	366.3
52.5°	323.2
55°	284.9
57.5°	258.6
60°	234.6
62.5°	210.7
65°	186.8
67.5°	162.8
70°	138.9
72.5°	117.4
75°	98.2
77.5°	78.9
80°	59.8
82.5°	43.0
85°	26.3
87.5°	12.0
90°	0.0



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— 0°-180°







(END OF REPORT)