

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: P582222

Luminaire Tested: **HC630D010-HM63040930-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040930-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2810.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

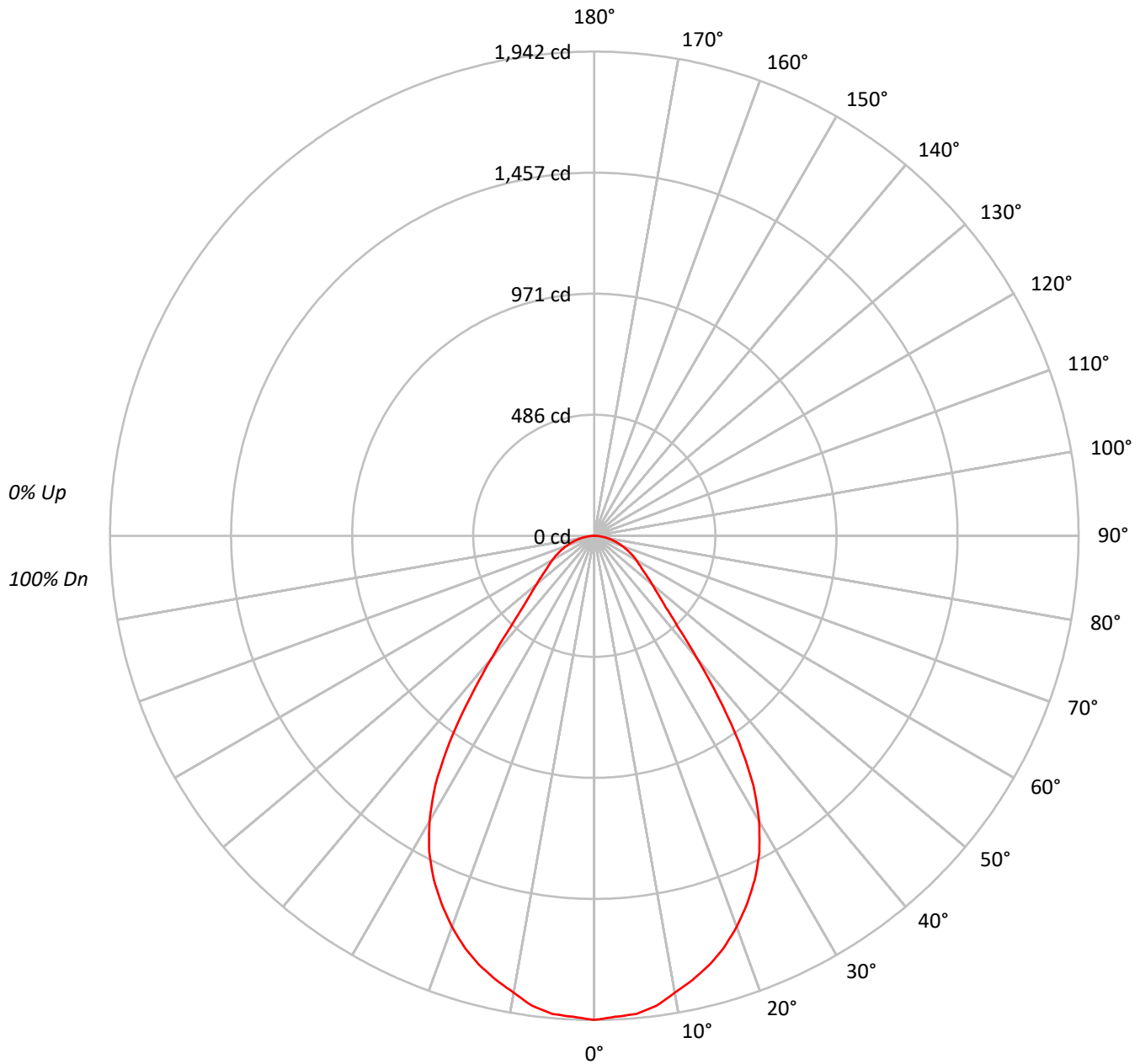
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79		
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63		
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57		
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44		
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106433
5°	105932
10°	103589
15°	101158
20°	97361
25°	92074
30°	83671
35°	67733
40°	45678
45°	31391
50°	25713
55°	22499
60°	21292
65°	20093
70°	18865
75°	17940
80°	16290
85°	14278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	6.5
10°-20°	500.6	17.8
20°-30°	695.4	24.7
30°-40°	619.2	22.0
40°-50°	328.7	11.7
50°-60°	214.9	7.6
60°-70°	154.0	5.5
70°-80°	89.3	3.2
80°-90°	26.1	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°	1377.7	49.0
0°-40°	1996.9	71.1
0°-60°	2540.5	90.4
0°-90°	2810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1942	
5°	1925	182
15°	1782	501
25°	1522	695
35°	1012	619
45°	405	329
55°	235	215
65°	155	154
75°	85	89
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1941.5
2.5°	1931.2
5°	1925.0
7.5°	1902.3
10°	1860.9
12.5°	1823.8
15°	1782.4
17.5°	1730.8
20°	1668.9
22.5°	1598.6
25°	1522.2
27.5°	1433.3
30°	1321.8
32.5°	1187.6
35°	1012.1
37.5°	817.9
40°	638.3
42.5°	495.7
45°	404.9
47.5°	344.9
50°	301.5
52.5°	266.5
55°	235.4
57.5°	212.7
60°	194.2
62.5°	175.6
65°	154.9
67.5°	136.3
70°	117.7
72.5°	101.2
75°	84.7
77.5°	68.1
80°	51.6
82.5°	37.2
85°	22.7
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)