

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: P582239

Luminaire Tested: **HC630D010-HM63040935-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582239
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: HC630D010-HM63040935-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2955.9 lumens
Efficiency: N/A
Efficacy: 105.6 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

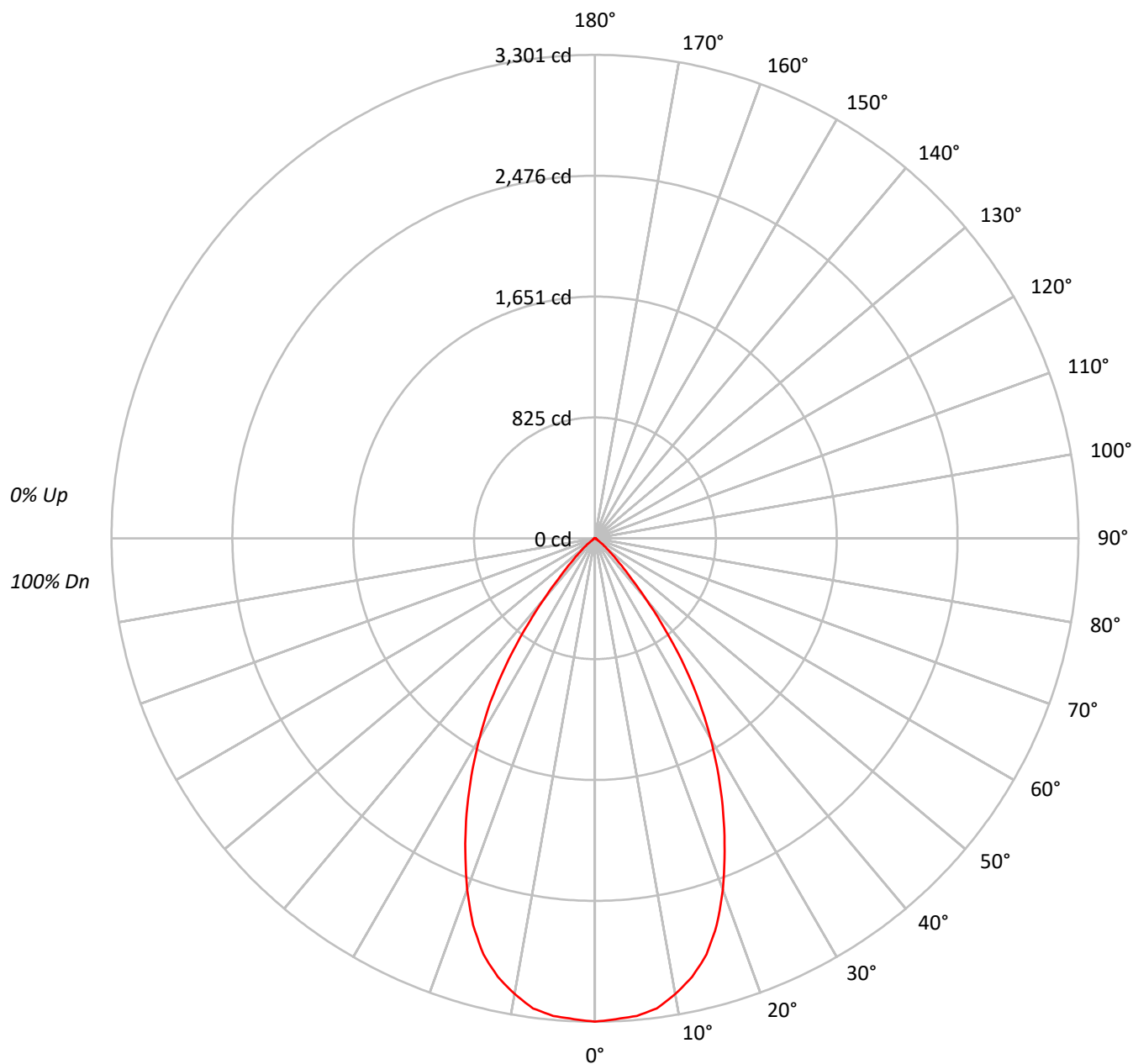
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68		86	78	72	68		76	71	68		75	71	67		74	70	67
7	83	74	68	64		82	73	67	63		72	67	63		71	66	63		70	66	62
8	79	70	64	59		78	69	63	59		68	63	59		67	62	59		66	62	59
9	75	66	60	56		74	65	59	56		64	59	55		63	59	55		62	58	55
10	72	62	56	52		71	62	56	52		61	56	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180950
5°	180183
10°	175915
15°	166993
20°	148850
25°	125384
30°	99901
35°	71273
40°	38322
45°	16420
50°	7462
55°	2724
60°	1338
65°	1064
70°	978
75°	424
80°	631
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	10.5
10°-20°	815.6	27.6
20°-30°	944.7	32.0
30°-40°	653.2	22.1
40°-50°	188.6	6.4
50°-60°	32.5	1.1
60°-70°	8.3	0.3
70°-80°	3.2	0.1
80°-90°	0.8	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°	2069.3	70.0
0°-40°	2722.6	92.1
0°-60°	2943.6	99.6
0°-90°	2955.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3301	
5°	3274	309
15°	2942	816
25°	2073	945
35°	1065	653
45°	212	189
55°	28	32
65°	8	8
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3300.8
2.5°	3286.5
5°	3274.3
7.5°	3237.6
10°	3160.2
12.5°	3066.5
15°	2942.4
17.5°	2767.3
20°	2551.5
22.5°	2313.2
25°	2072.9
27.5°	1826.5
30°	1578.2
32.5°	1329.7
35°	1065.0
37.5°	790.1
40°	535.5
42.5°	338.0
45°	211.8
47.5°	136.4
50°	87.5
52.5°	52.9
55°	28.5
57.5°	16.3
60°	12.2
62.5°	10.2
65°	8.2
67.5°	6.1
70°	6.1
72.5°	4.0
75°	2.0
77.5°	2.0
80°	2.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)