

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: P582139

Luminaire Tested: **HC630D010-HM63040827-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2988.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

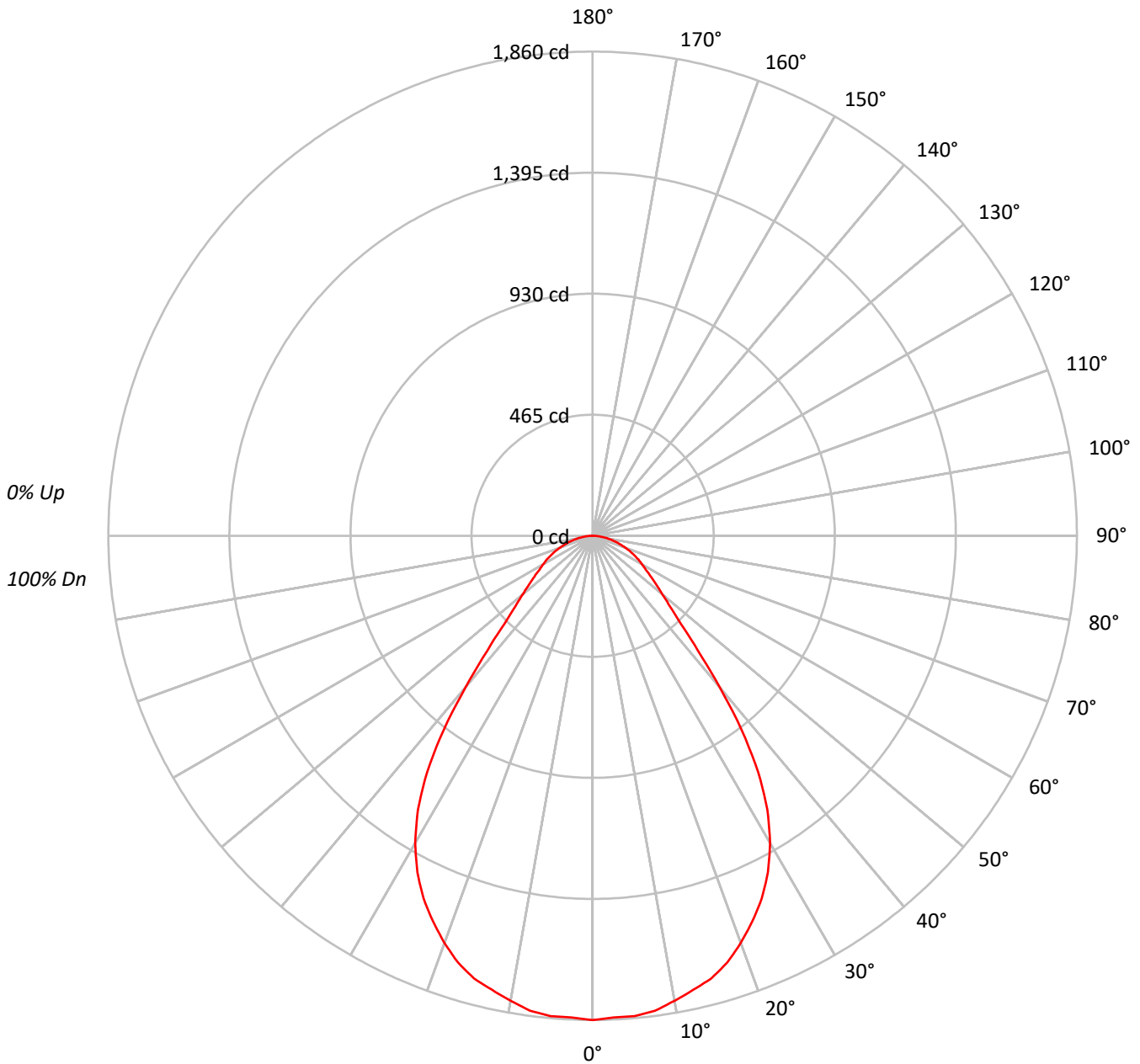
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	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	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101993
5°	101931
10°	100950
15°	99904
20°	97081
25°	92975
30°	86292
35°	74238
40°	54194
45°	37128
50°	29850
55°	26025
60°	24011
65°	22830
70°	21318
75°	19952
80°	18089
85°	15473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	5.9
10°-20°	494.4	16.5
20°-30°	703.1	23.5
30°-40°	676.9	22.6
40°-50°	389.5	13.0
50°-60°	246.8	8.3
60°-70°	174.7	5.8
70°-80°	99.6	3.3
80°-90°	28.4	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°	1373.1	45.9
0°-40°	2050.0	68.6
0°-60°	2686.2	89.9
0°-90°	2988.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1860	
5°	1852	176
15°	1760	494
25°	1537	703
35°	1109	677
45°	479	389
55°	272	247
65°	176	175
75°	94	100
85°	25	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1860.5
2.5°	1852.3
5°	1852.3
7.5°	1840.1
10°	1813.5
12.5°	1786.8
15°	1760.3
17.5°	1719.3
20°	1664.1
22.5°	1602.7
25°	1537.1
27.5°	1457.4
30°	1363.2
32.5°	1248.6
35°	1109.3
37.5°	939.5
40°	757.3
42.5°	597.7
45°	478.9
47.5°	403.2
50°	350.0
52.5°	307.0
55°	272.3
57.5°	241.5
60°	219.0
62.5°	198.6
65°	176.0
67.5°	155.5
70°	133.0
72.5°	112.6
75°	94.2
77.5°	75.7
80°	57.3
82.5°	40.9
85°	24.6
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)