

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: P584264

Luminaire Tested: **HC830D010-HM82555830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3332.7 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

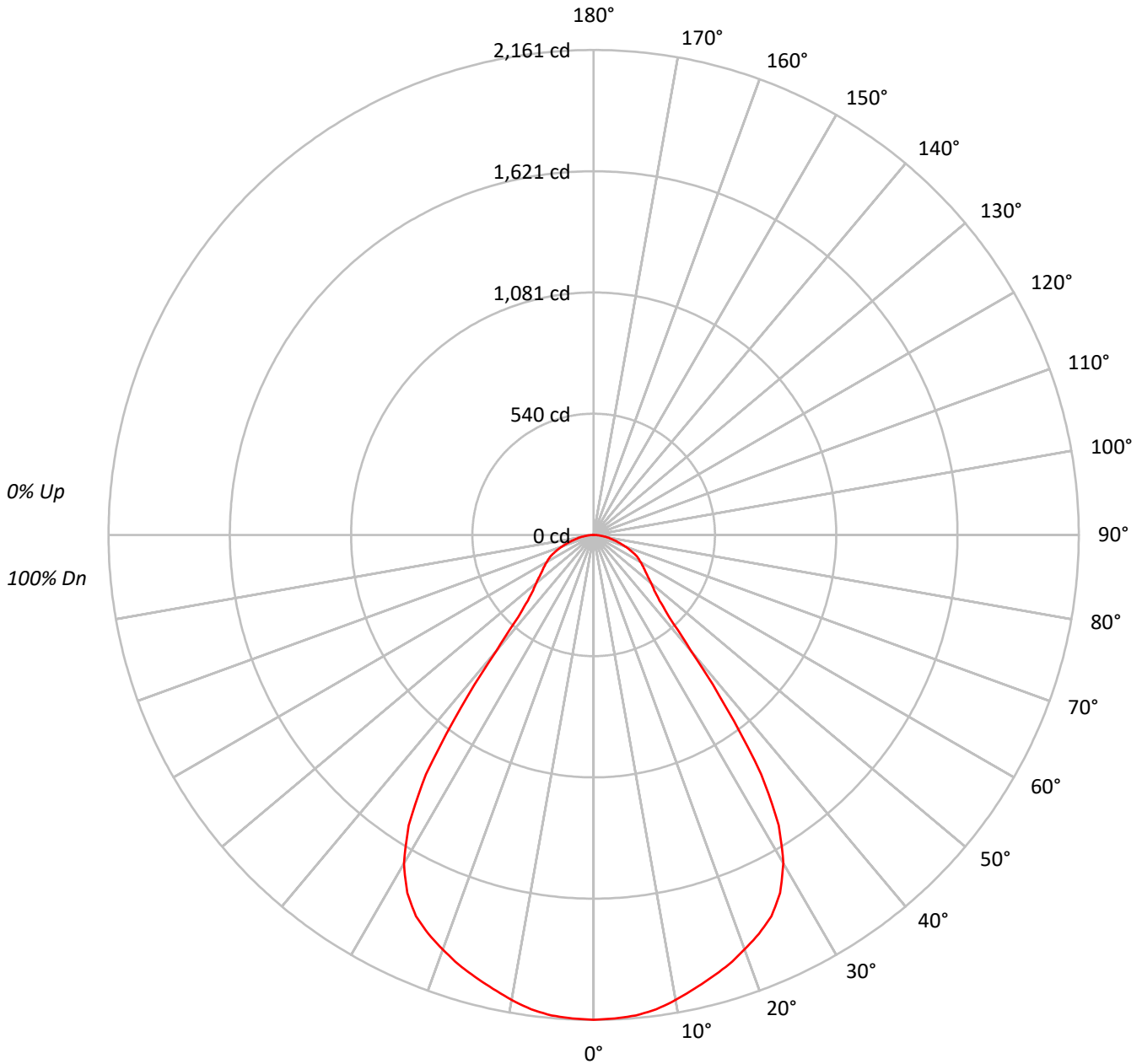
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52																			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66628
5°	66542
10°	65887
15°	65096
20°	64495
25°	63768
30°	60172
35°	48998
40°	27071
45°	18072
50°	16028
55°	15048
60°	14851
65°	14724
70°	13308
75°	11890
80°	10406
85°	9199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	6.1
10°-20°	575.8	17.3
20°-30°	855.5	25.7
30°-40°	770.5	23.1
40°-50°	341.6	10.2
50°-60°	253.0	7.6
60°-70°	196.7	5.9
70°-80°	106.7	3.2
80°-90°	29.2	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°	1635.0	49.1
0°-40°	2405.5	72.2
0°-60°	3000.1	90.0
0°-90°	3332.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2161	
5°	2150	204
15°	2039	576
25°	1874	856
35°	1302	770
45°	414	342
55°	280	253
65°	202	197
75°	100	107
85°	26	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2160.7
2.5°	2156.3
5°	2149.7
7.5°	2132.4
10°	2104.2
12.5°	2071.7
15°	2039.1
17.5°	2006.6
20°	1965.4
22.5°	1924.2
25°	1874.2
27.5°	1798.4
30°	1689.9
32.5°	1533.7
35°	1301.6
37.5°	971.9
40°	672.5
42.5°	496.8
45°	414.4
47.5°	366.6
50°	334.1
52.5°	303.7
55°	279.9
57.5°	260.3
60°	240.8
62.5°	223.4
65°	201.8
67.5°	175.7
70°	147.6
72.5°	123.7
75°	99.8
77.5°	78.1
80°	58.6
82.5°	41.3
85°	26.0
87.5°	10.8
90°	0.0



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— 0°-180°







(END OF REPORT)