

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: P584247

Luminaire Tested: **HC830D010-HM82555827-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584247
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-HM82555827-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" 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: 3412.7 lumens
Efficiency: N/A
Efficacy: 121.9 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

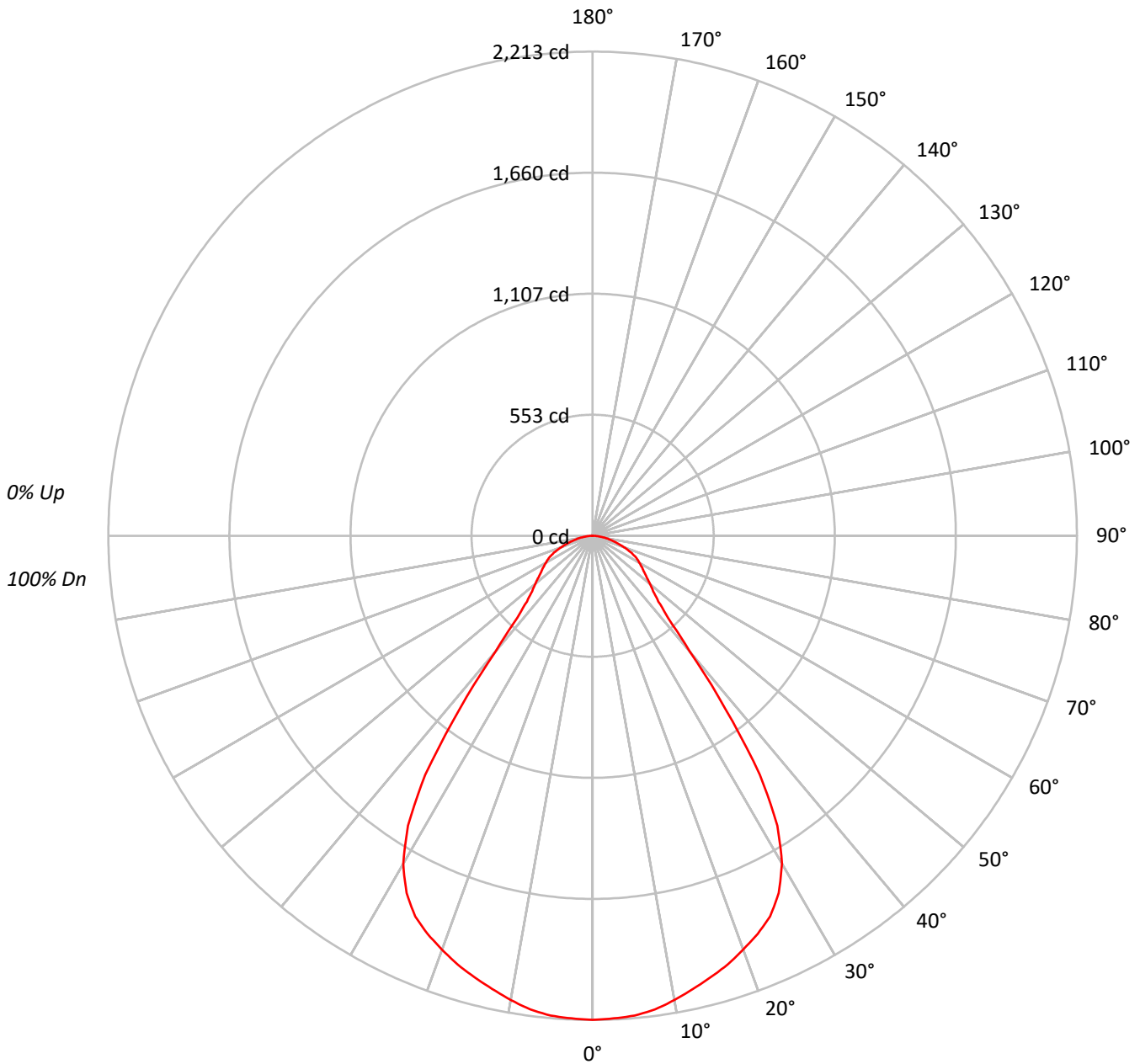
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	68228
5°	68142
10°	67471
15°	66661
20°	66044
25°	65302
30°	61617
35°	50176
40°	27723
45°	18508
50°	16411
55°	15403
60°	15208
65°	15075
70°	13614
75°	12164
80°	10637
85°	9411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	6.1
10°-20°	589.6	17.3
20°-30°	876.1	25.7
30°-40°	789.0	23.1
40°-50°	349.8	10.3
50°-60°	259.0	7.6
60°-70°	201.4	5.9
70°-80°	109.2	3.2
80°-90°	29.9	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°	1674.3	49.1
0°-40°	2463.3	72.2
0°-60°	3072.2	90.0
0°-90°	3412.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2213	
5°	2201	209
15°	2088	590
25°	1919	876
35°	1333	789
45°	424	350
55°	286	259
65°	207	201
75°	102	109
85°	27	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2212.6
2.5°	2208.1
5°	2201.4
7.5°	2183.7
10°	2154.8
12.5°	2121.5
15°	2088.1
17.5°	2054.8
20°	2012.6
22.5°	1970.4
25°	1919.3
27.5°	1841.6
30°	1730.5
32.5°	1570.6
35°	1332.9
37.5°	995.2
40°	688.7
42.5°	508.8
45°	424.4
47.5°	375.5
50°	342.1
52.5°	311.0
55°	286.5
57.5°	266.6
60°	246.6
62.5°	228.8
65°	206.6
67.5°	179.9
70°	151.0
72.5°	126.6
75°	102.1
77.5°	80.0
80°	59.9
82.5°	42.2
85°	26.6
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)