

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: P584358

Luminaire Tested: **HC830D010-HM82555940-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555940-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3209.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

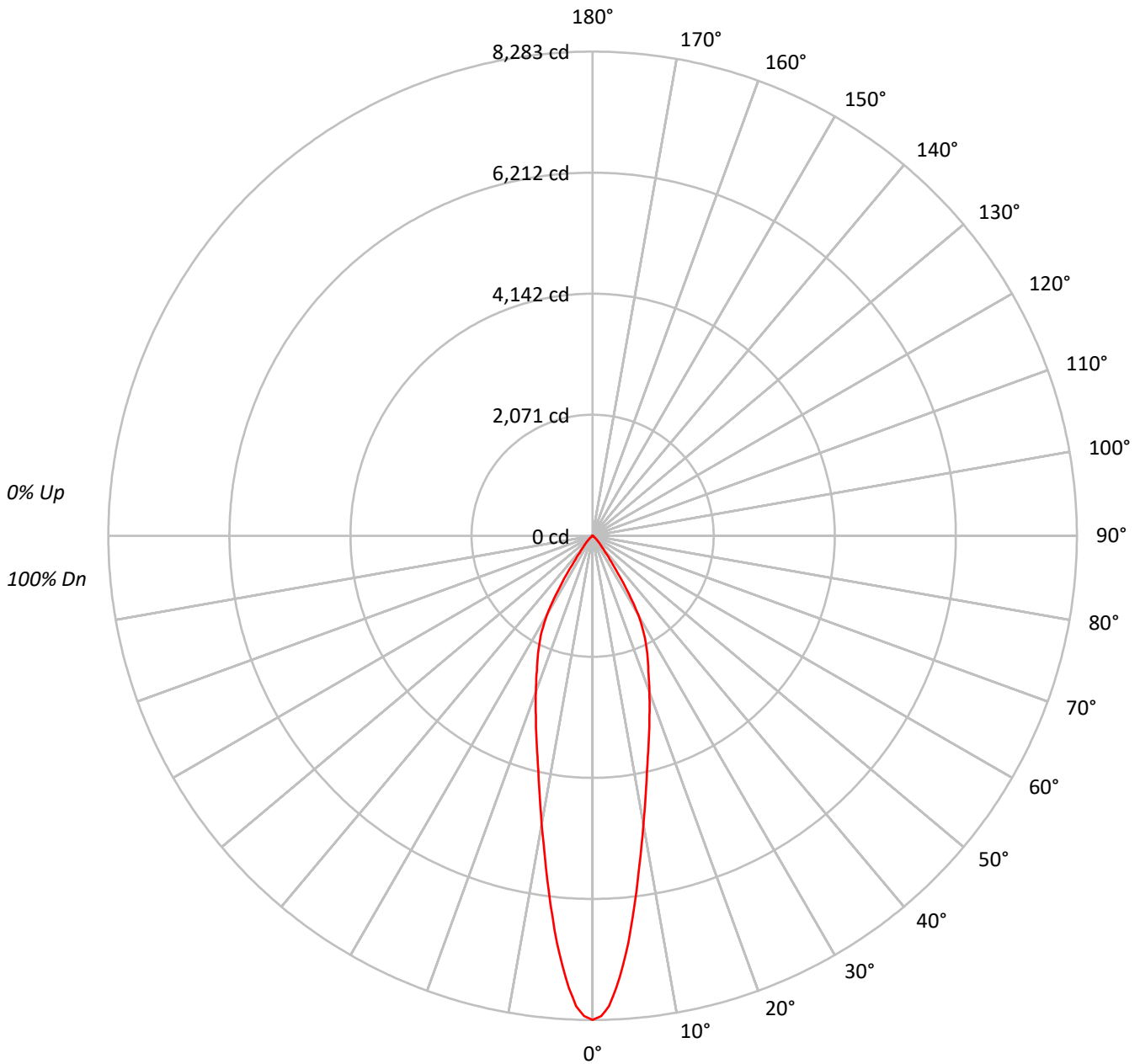
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	255414
5°	216388
10°	157002
15°	117905
20°	93028
25°	75040
30°	55603
35°	22526
40°	9500
45°	5098
50°	2288
55°	1150
60°	734
65°	518
70°	433
75°	286
80°	426
85°	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.2	18.7
10°-20°	1037.3	32.3
20°-30°	1002.9	31.2
30°-40°	440.5	13.7
40°-50°	95.2	3.0
50°-60°	21.4	0.7
60°-70°	7.3	0.2
70°-80°	2.9	0.1
80°-90°	2.3	0.1
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°	2640.4	82.3
0°-40°	3080.9	96.0
0°-60°	3197.5	99.6
0°-90°	3209.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8283	
5°	6991	600
15°	3693	1037
25°	2206	1003
35°	598	440
45°	117	95
55°	21	21
65°	7	7
75°	2	3
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8282.9
1°	8221.0
2°	8051.7
3°	7746.5
4°	7381.7
5°	6990.6
6°	6563.9
7°	6134.6
8°	5731.8
9°	5357.4
10°	5014.1
11°	4689.9
12°	4398.9
13°	4134.3
14°	3900.6
15°	3693.3
17.5°	3228.3
20°	2834.9
22.5°	2489.2
25°	2205.5
27.5°	1916.9
30°	1561.6
32.5°	1060.9
35°	598.4
37.5°	352.9
40°	236.0
42.5°	166.9
45°	116.9
47.5°	76.3
50°	47.7
52.5°	28.7
55°	21.4
57.5°	16.6
60°	11.9
62.5°	9.5
65°	7.1
67.5°	4.8
70°	4.8
72.5°	2.4
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	2.4
87.5°	2.4



(END OF REPORT)