

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: P584341

Luminaire Tested: **HC830D010-HM82555935-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584341
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-HM82555935-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" 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: 2903.9 lumens
Efficiency: N/A
Efficacy: 103.7 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

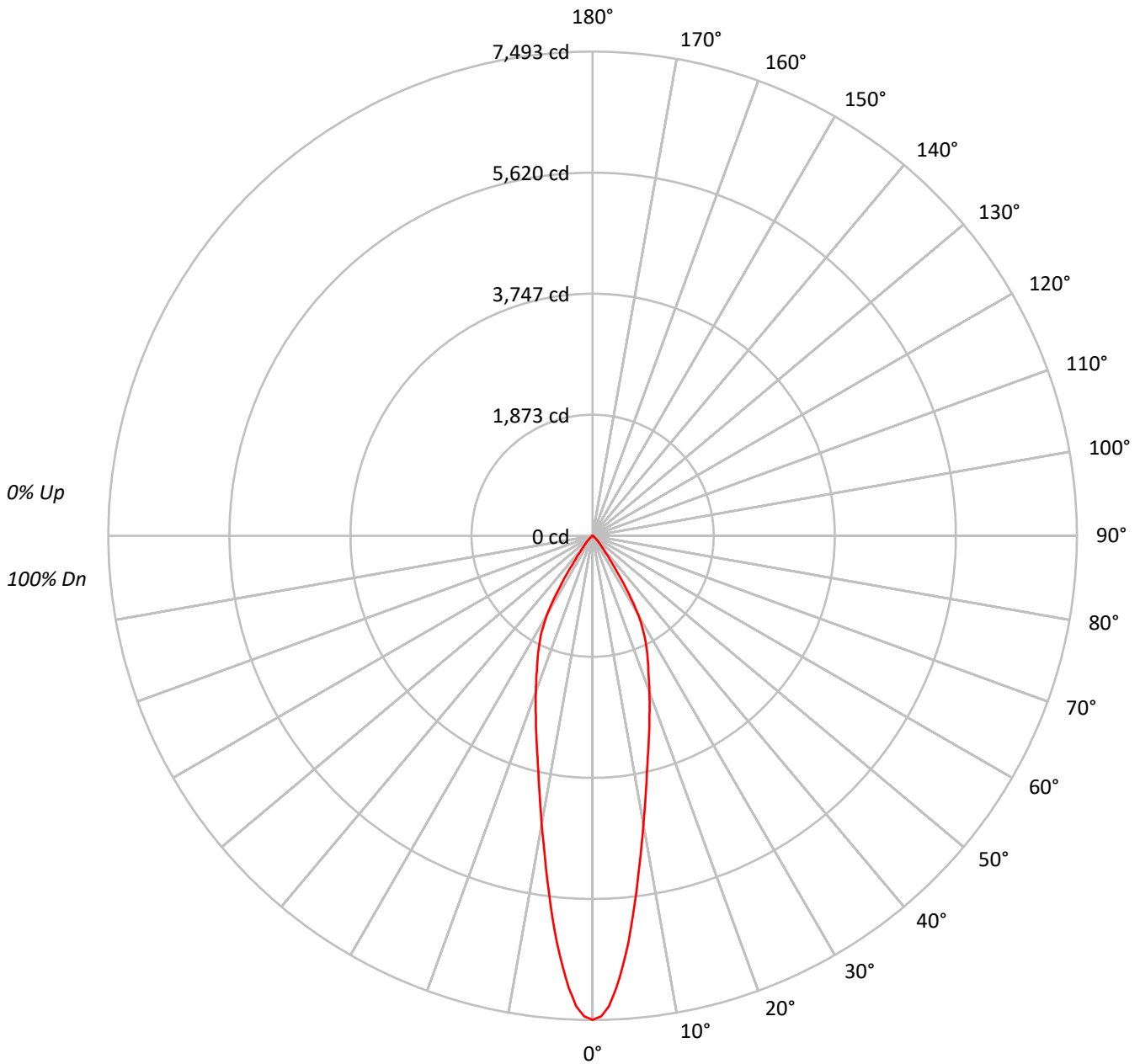
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	231069
5°	195763
10°	142038
15°	106665
20°	84161
25°	67888
30°	50309
35°	20381
40°	8594
45°	4609
50°	2072
55°	1043
60°	666
65°	467
70°	388
75°	250
80°	373
85°	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.0	18.7
10°-20°	938.4	32.3
20°-30°	907.3	31.2
30°-40°	398.5	13.7
40°-50°	86.2	3.0
50°-60°	19.4	0.7
60°-70°	6.6	0.2
70°-80°	2.5	0.1
80°-90°	2.0	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°	2388.8	82.3
0°-40°	2787.3	96.0
0°-60°	2892.8	99.6
0°-90°	2903.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2903.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7493	
5°	6324	543
15°	3341	938
25°	1995	907
35°	541	398
45°	106	86
55°	19	19
65°	6	7
75°	2	3
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7493.4
1°	7437.3
2°	7284.2
3°	7008.1
4°	6678.1
5°	6324.3
6°	5938.2
7°	5550.0
8°	5185.5
9°	4846.8
10°	4536.2
11°	4242.8
12°	3979.7
13°	3740.2
14°	3528.8
15°	3341.2
17.5°	2920.5
20°	2564.7
22.5°	2252.0
25°	1995.3
27.5°	1734.3
30°	1412.9
32.5°	959.9
35°	541.4
37.5°	319.2
40°	213.5
42.5°	151.0
45°	105.7
47.5°	69.1
50°	43.2
52.5°	25.9
55°	19.4
57.5°	15.1
60°	10.8
62.5°	8.7
65°	6.4
67.5°	4.3
70°	4.3
72.5°	2.1
75°	2.1
77.5°	2.1
80°	2.1
82.5°	2.1



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	2.1
87.5°	2.1



(END OF REPORT)