

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: P584239

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584239
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-HM82555827-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3008.6 lumens
Efficiency: N/A
Efficacy: 107.4 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

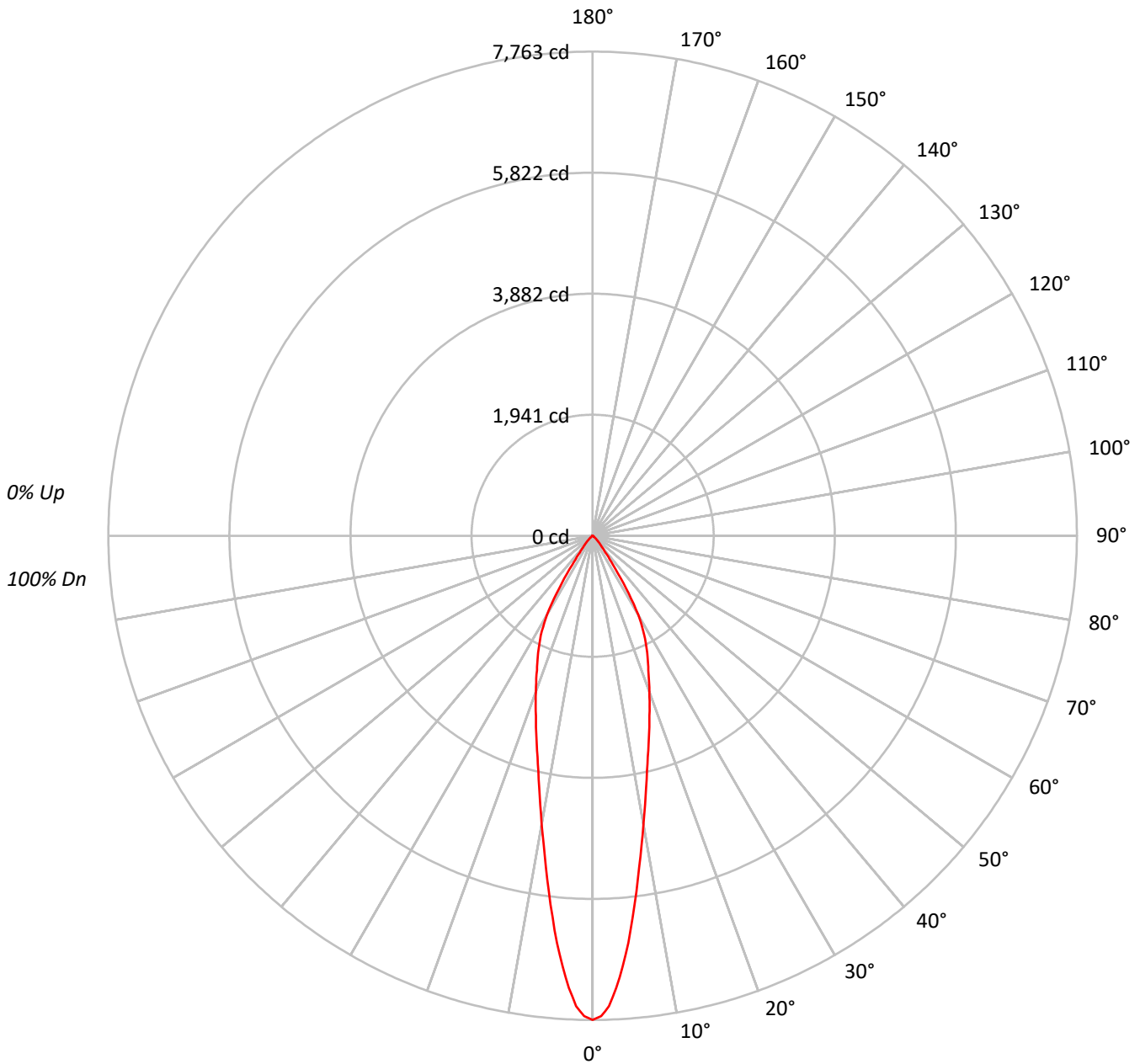
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	239373
5°	202799
10°	147141
15°	110499
20°	87184
25°	70328
30°	52118
35°	21115
40°	8908
45°	4775
50°	2144
55°	1081
60°	691
65°	489
70°	406
75°	274
80°	408
85°	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.5	18.7
10°-20°	972.1	32.3
20°-30°	939.9	31.2
30°-40°	412.8	13.7
40°-50°	89.3	3.0
50°-60°	20.1	0.7
60°-70°	6.9	0.2
70°-80°	2.7	0.1
80°-90°	2.2	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°	2474.6	82.3
0°-40°	2887.4	96.0
0°-60°	2996.8	99.6
0°-90°	3008.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3008.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7763	
5°	6552	563
15°	3461	972
25°	2067	940
35°	561	413
45°	110	89
55°	20	20
65°	7	7
75°	2	3
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7762.7
1°	7704.6
2°	7546.0
3°	7259.9
4°	6918.1
5°	6551.6
6°	6151.6
7°	5749.4
8°	5371.8
9°	5021.0
10°	4699.2
11°	4395.3
12°	4122.7
13°	3874.7
14°	3655.7
15°	3461.3
17.5°	3025.5
20°	2656.8
22.5°	2332.8
25°	2067.0
27.5°	1796.6
30°	1463.7
32.5°	994.4
35°	560.9
37.5°	330.7
40°	221.3
42.5°	156.5
45°	109.5
47.5°	71.5
50°	44.7
52.5°	26.9
55°	20.1
57.5°	15.7
60°	11.2
62.5°	8.9
65°	6.7
67.5°	4.5
70°	4.5
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	2.3



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	2.3
87.5°	2.3



(END OF REPORT)