

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: P584137

Luminaire Tested: **HC825D010-HM82555835-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584137
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: HC825D010-HM82555835-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2314.3 lumens
Efficiency: N/A
Efficacy: 86.4 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

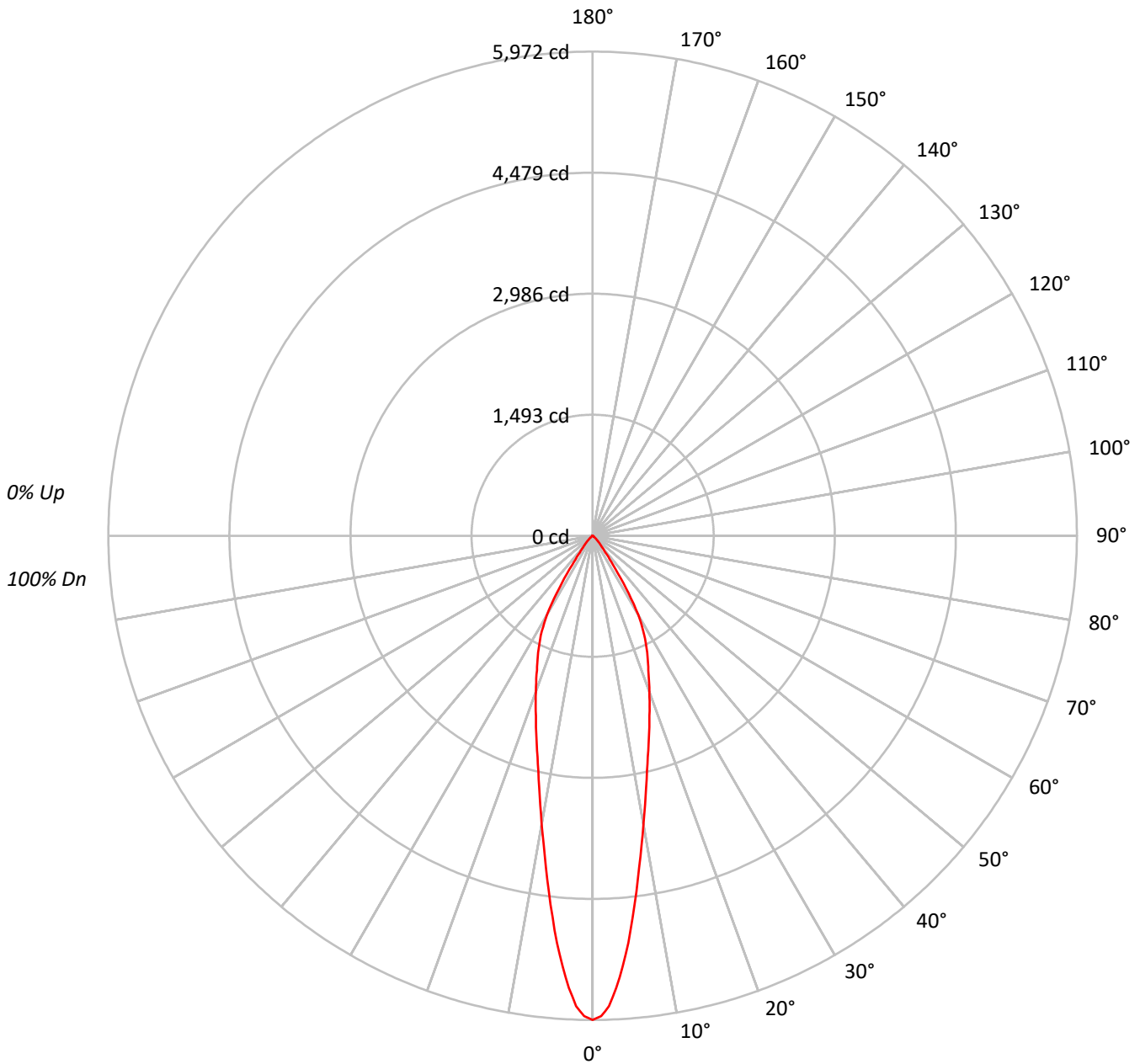
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	106	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	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68		
8	84	76	71	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°	184154
5°	156018
10°	113199
15°	85007
20°	67075
25°	54102
30°	40093
35°	16243
40°	6851
45°	3672
50°	1645
55°	833
60°	530
65°	372
70°	307
75°	203
80°	302
85°	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	18.7
10°-20°	747.9	32.3
20°-30°	723.1	31.2
30°-40°	317.6	13.7
40°-50°	68.6	3.0
50°-60°	15.4	0.7
60°-70°	5.2	0.2
70°-80°	2.0	0.1
80°-90°	1.6	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°	1903.7	82.3
0°-40°	2221.3	96.0
0°-60°	2305.4	99.6
0°-90°	2314.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5972	
5°	5040	433
15°	2663	748
25°	1590	723
35°	432	318
45°	84	69
55°	16	15
65°	5	5
75°	2	2
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5972.0
1°	5927.4
2°	5805.3
3°	5585.3
4°	5322.2
5°	5040.3
6°	4732.6
7°	4423.2
8°	4132.7
9°	3862.7
10°	3615.2
11°	3381.4
12°	3171.7
13°	2980.9
14°	2812.4
15°	2662.8
17.5°	2327.6
20°	2044.0
22.5°	1794.7
25°	1590.1
27.5°	1382.1
30°	1126.0
32.5°	764.9
35°	431.5
37.5°	254.4
40°	170.2
42.5°	120.4
45°	84.2
47.5°	55.0
50°	34.3
52.5°	20.7
55°	15.5
57.5°	12.0
60°	8.6
62.5°	6.8
65°	5.1
67.5°	3.4
70°	3.4
72.5°	1.7
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	1.7
87.5°	1.7



(END OF REPORT)