

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: P593626

Luminaire Tested: **HC825D010-HM82555850-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555850-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2741.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

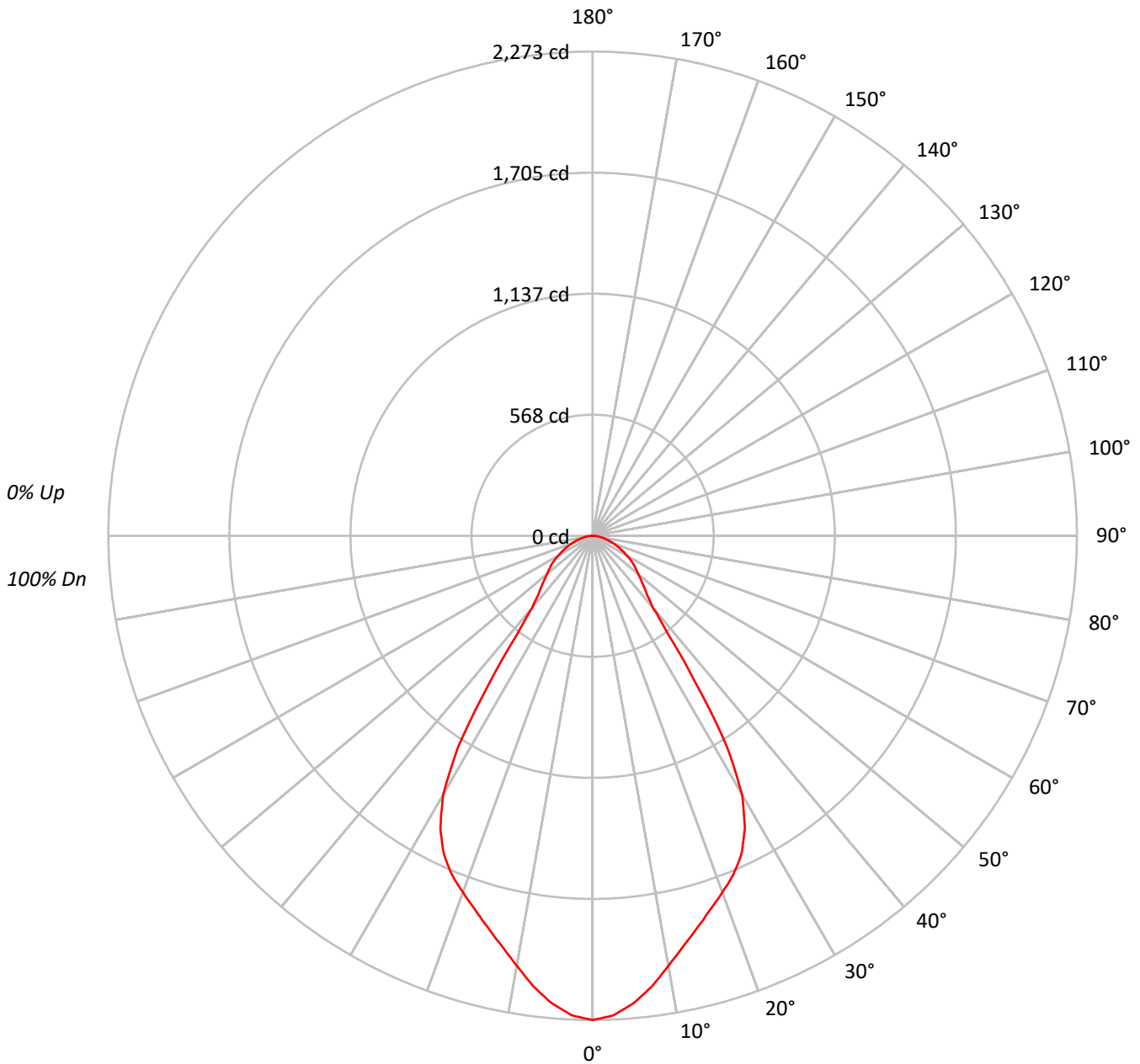
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70103
5°	68195
10°	64174
15°	60758
20°	58444
25°	56187
30°	49903
35°	31779
40°	17736
45°	14858
50°	13413
55°	12639
60°	11533
65°	10398
70°	9187
75°	8161
80°	7245
85°	6545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	7.5
10°-20°	536.7	19.6
20°-30°	748.8	27.3
30°-40°	538.8	19.7
40°-50°	267.0	9.7
50°-60°	208.9	7.6
60°-70°	141.5	5.2
70°-80°	73.5	2.7
80°-90°	21.2	0.8
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°	1490.9	54.4
0°-40°	2029.7	74.0
0°-60°	2505.7	91.4
0°-90°	2741.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2273	
5°	2203	205
15°	1903	537
25°	1651	749
35°	844	539
45°	341	267
55°	235	209
65°	142	141
75°	68	73
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2273.4
2.5°	2253.1
5°	2203.1
7.5°	2132.8
10°	2049.5
12.5°	1971.7
15°	1903.2
17.5°	1838.4
20°	1781.0
22.5°	1723.7
25°	1651.4
27.5°	1547.8
30°	1401.5
32.5°	1171.9
35°	844.2
37.5°	575.8
40°	440.6
42.5°	379.5
45°	340.7
47.5°	307.3
50°	279.6
52.5°	255.5
55°	235.1
57.5°	211.0
60°	187.0
62.5°	163.0
65°	142.5
67.5°	122.2
70°	101.9
72.5°	85.2
75°	68.5
77.5°	53.7
80°	40.8
82.5°	29.6
85°	18.5
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)