

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: P584254

Luminaire Tested: **HC830D010-HM82555830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584254
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: HC830D010-HM82555830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3213.2 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

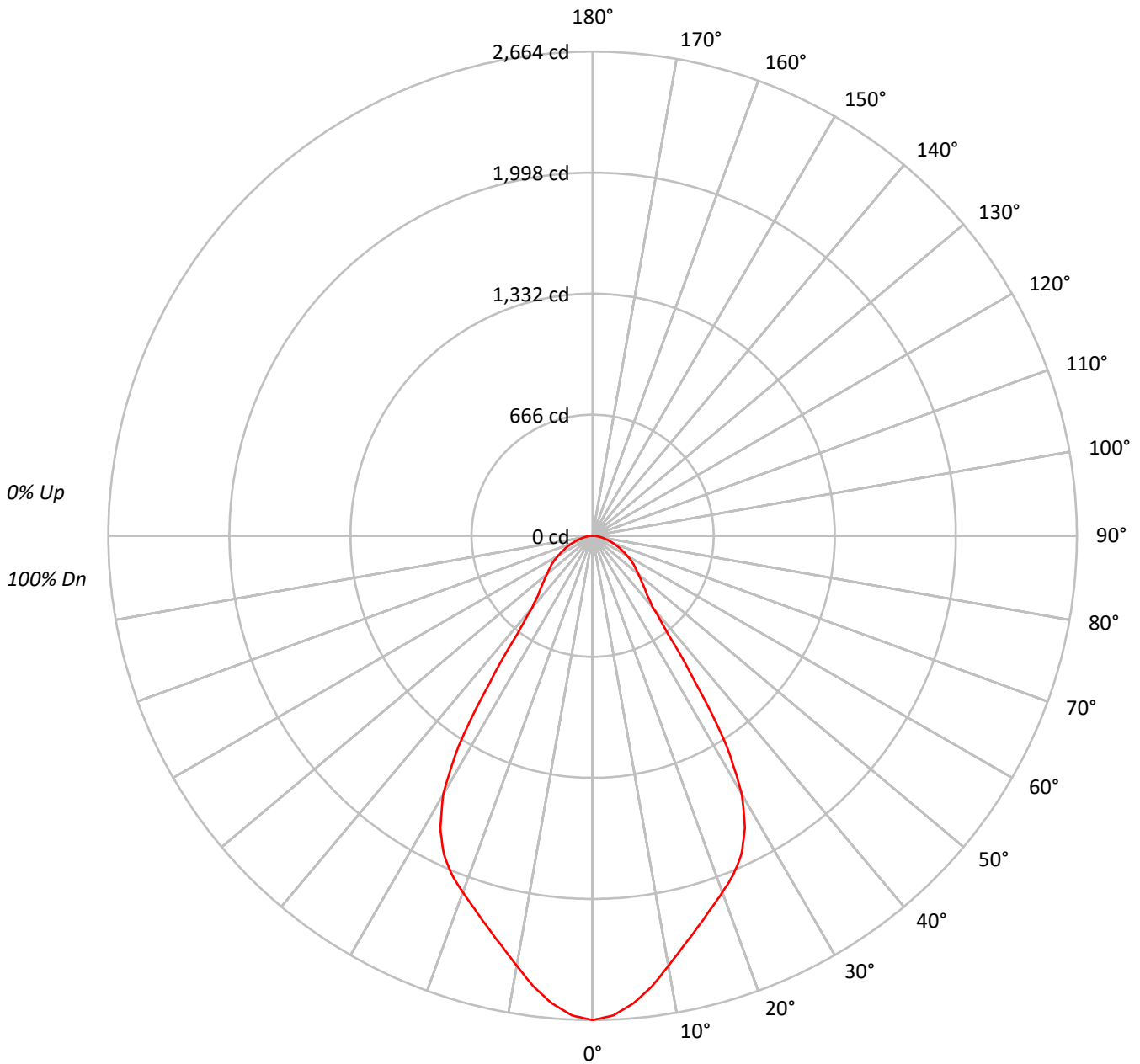
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82160
5°	79923
10°	75208
15°	71210
20°	68495
25°	65854
30°	58484
35°	37245
40°	20787
45°	17413
50°	15721
55°	14817
60°	13512
65°	12192
70°	10765
75°	9567
80°	8471
85°	7642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	7.5
10°-20°	629.1	19.6
20°-30°	877.6	27.3
30°-40°	631.5	19.7
40°-50°	312.9	9.7
50°-60°	244.8	7.6
60°-70°	165.8	5.2
70°-80°	86.1	2.7
80°-90°	24.7	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°	1747.4	54.4
0°-40°	2378.8	74.0
0°-60°	2936.6	91.4
0°-90°	3213.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2664	
5°	2582	241
15°	2231	629
25°	1936	878
35°	989	631
45°	399	313
55°	276	245
65°	167	166
75°	80	86
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2664.4
2.5°	2640.7
5°	2582.0
7.5°	2499.5
10°	2401.9
12.5°	2310.8
15°	2230.6
17.5°	2154.6
20°	2087.3
22.5°	2020.1
25°	1935.5
27.5°	1813.9
30°	1642.5
32.5°	1373.4
35°	989.4
37.5°	674.8
40°	516.4
42.5°	444.8
45°	399.3
47.5°	360.1
50°	327.7
52.5°	299.4
55°	275.6
57.5°	247.3
60°	219.1
62.5°	191.0
65°	167.1
67.5°	143.2
70°	119.4
72.5°	99.8
75°	80.3
77.5°	62.9
80°	47.7
82.5°	34.7
85°	21.6
87.5°	10.8
90°	0.0



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— 0°-180°







(END OF REPORT)