

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: P584282

Luminaire Tested: **HC830D010-HM82555835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3787.9 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

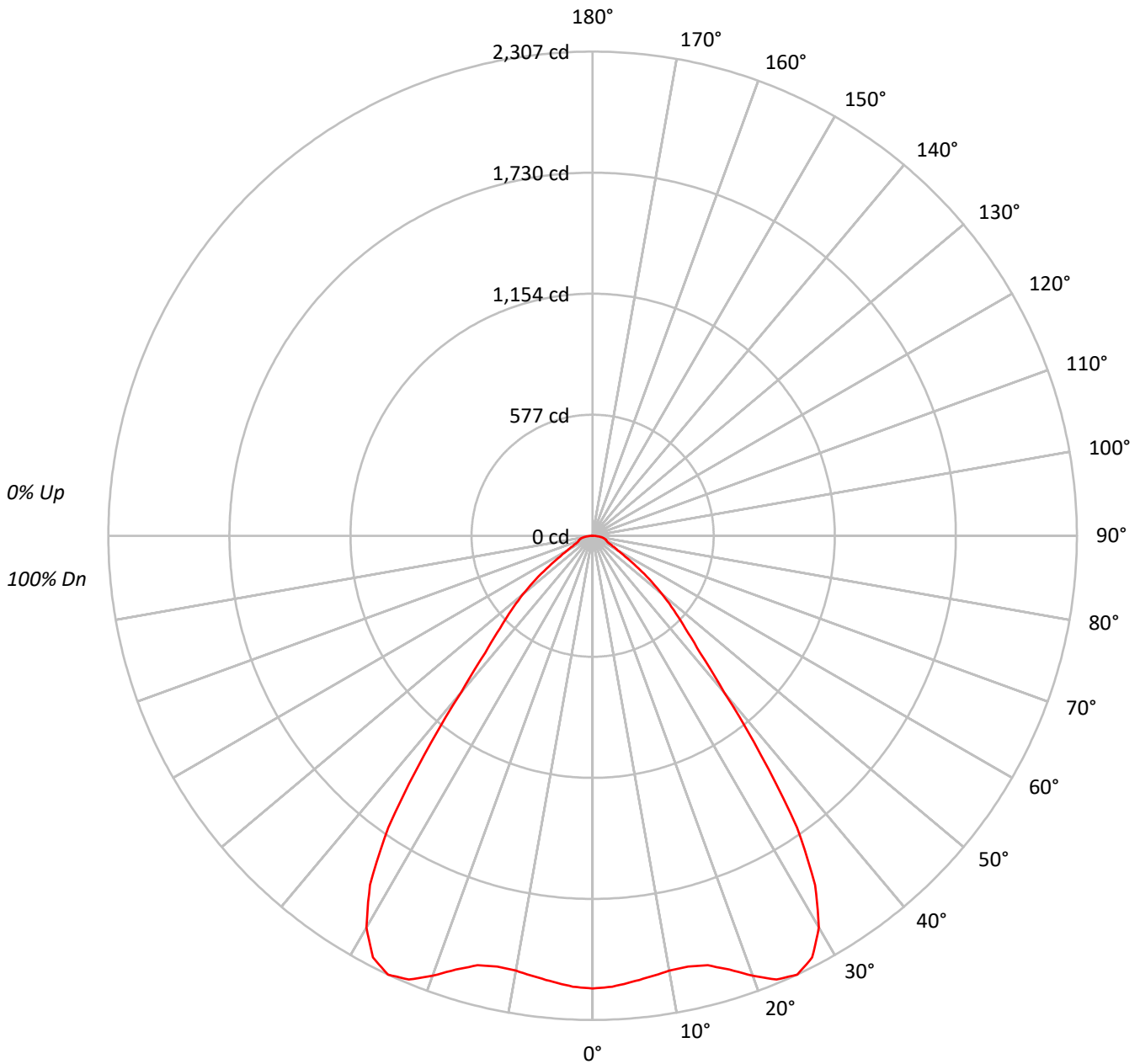
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66523
5°	66068
10°	65893
15°	67622
20°	73208
25°	78487
30°	76736
35°	63893
40°	39256
45°	27182
50°	20743
55°	13602
60°	8511
65°	6377
70°	6428
75°	7399
80°	8169
85°	7324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	5.4
10°-20°	608.1	16.1
20°-30°	1046.8	27.6
30°-40°	1014.2	26.8
40°-50°	499.5	13.2
50°-60°	235.7	6.2
60°-70°	92.9	2.5
70°-80°	64.1	1.7
80°-90°	23.8	0.6
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°	1857.7	49.0
0°-40°	2871.9	75.8
0°-60°	3607.1	95.2
0°-90°	3787.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3787.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2157	
5°	2134	203
15°	2118	608
25°	2307	1047
35°	1697	1014
45°	623	500
55°	253	236
65°	87	93
75°	62	64
85°	21	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2157.3
2.5°	2150.4
5°	2134.4
7.5°	2118.2
10°	2104.4
12.5°	2102.2
15°	2118.2
17.5°	2166.5
20°	2230.9
22.5°	2288.5
25°	2306.8
27.5°	2265.4
30°	2155.1
32.5°	1973.4
35°	1697.3
37.5°	1317.9
40°	975.2
42.5°	756.7
45°	623.3
47.5°	524.3
50°	432.4
52.5°	340.4
55°	253.0
57.5°	183.9
60°	138.0
62.5°	108.1
65°	87.4
67.5°	75.9
70°	71.3
72.5°	66.7
75°	62.1
77.5°	55.2
80°	46.0
82.5°	34.5
85°	20.7
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)