

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: P584278

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555835-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3445.2 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

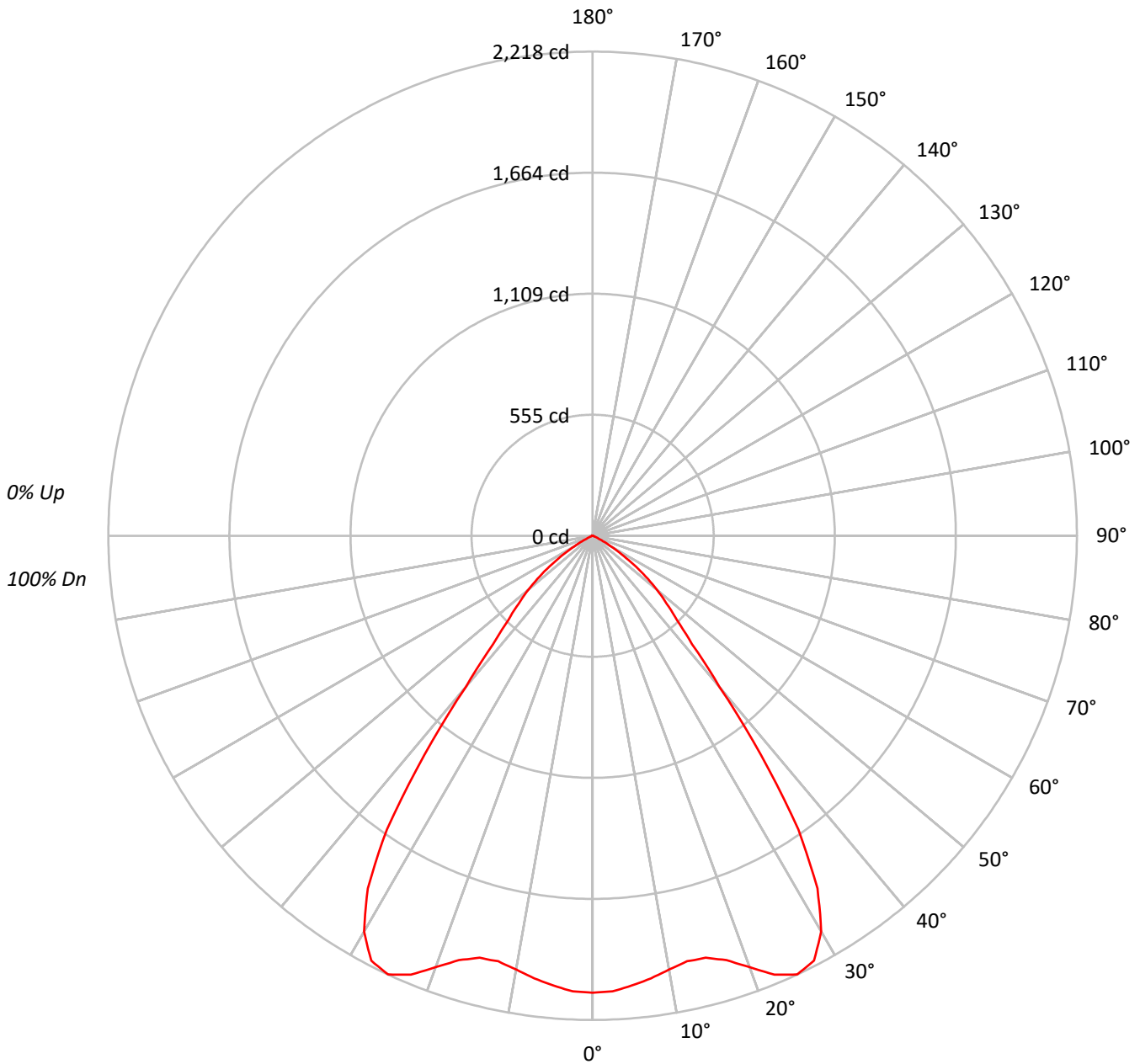
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
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	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64553
5°	64013
10°	63169
15°	63890
20°	68994
25°	75448
30°	74539
35°	61831
40°	36390
45°	23776
50°	18431
55°	12241
60°	5964
65°	1846
70°	622
75°	548
80°	408
85°	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	5.7
10°-20°	575.0	16.7
20°-30°	1005.3	29.2
30°-40°	977.9	28.4
40°-50°	444.7	12.9
50°-60°	206.2	6.0
60°-70°	34.6	1.0
70°-80°	4.2	0.1
80°-90°	1.6	0.0
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°	1776.1	51.6
0°-40°	2753.9	79.9
0°-60°	3404.8	98.8
0°-90°	3445.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3445.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2093	
5°	2068	196
15°	2001	575
25°	2218	1005
35°	1642	978
45°	545	445
55°	228	206
65°	25	35
75°	5	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2093.4
2.5°	2088.7
5°	2068.0
7.5°	2045.0
10°	2017.4
12.5°	1996.7
15°	2001.3
17.5°	2038.1
20°	2102.5
22.5°	2176.1
25°	2217.5
27.5°	2194.5
30°	2093.4
32.5°	1916.2
35°	1642.5
37.5°	1265.2
40°	904.0
42.5°	674.0
45°	545.2
47.5°	460.0
50°	384.2
52.5°	305.9
55°	227.7
57.5°	156.5
60°	96.7
62.5°	52.9
65°	25.3
67.5°	11.5
70°	6.9
72.5°	4.6
75°	4.6
77.5°	2.3
80°	2.3
82.5°	2.3
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)