

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: P584274

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.6 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

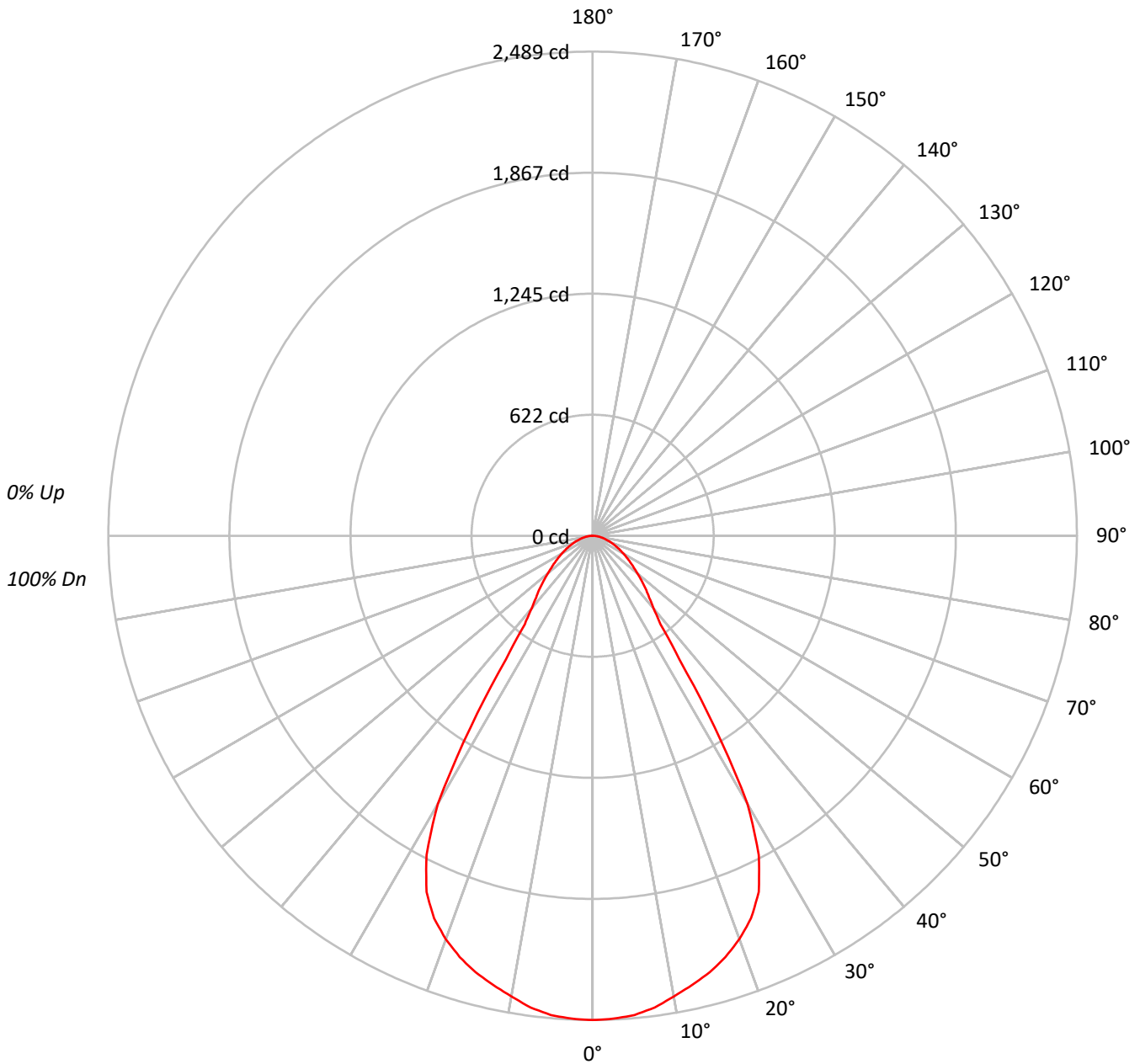
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	101	102	100	98	98	96	95	95	93	92	90																											
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																											
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																											
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																											
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																											
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																											
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																											
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																											
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																											
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76761
5°	76553
10°	75280
15°	74176
20°	72400
25°	68725
30°	56686
35°	29186
40°	19543
45°	16755
50°	14459
55°	12618
60°	11212
65°	10069
70°	9124
75°	8221
80°	7352
85°	7324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	7.6
10°-20°	653.7	21.2
20°-30°	905.8	29.4
30°-40°	544.1	17.7
40°-50°	297.9	9.7
50°-60°	211.6	6.9
60°-70°	137.4	4.5
70°-80°	73.4	2.4
80°-90°	21.9	0.7
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°	1793.4	58.2
0°-40°	2337.4	75.9
0°-60°	2846.9	92.4
0°-90°	3079.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2489	
5°	2473	234
15°	2324	654
25°	2020	906
35°	775	544
45°	384	298
55°	235	212
65°	138	137
75°	69	73
85°	21	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2489.3
2.5°	2484.7
5°	2473.1
7.5°	2445.5
10°	2404.2
12.5°	2365.0
15°	2323.5
17.5°	2270.6
20°	2206.3
22.5°	2128.1
25°	2019.9
27.5°	1849.7
30°	1592.0
32.5°	1166.4
35°	775.3
37.5°	572.9
40°	485.5
42.5°	430.2
45°	384.2
47.5°	340.5
50°	301.4
52.5°	264.6
55°	234.7
57.5°	207.0
60°	181.8
62.5°	158.7
65°	138.0
67.5°	117.4
70°	101.2
72.5°	82.9
75°	69.0
77.5°	55.2
80°	41.4
82.5°	30.0
85°	20.7
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)