

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: P584350

Luminaire Tested: **HC830D010-HM82555935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584350
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-HM82555935-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.3 lumens
Efficiency: N/A
Efficacy: 126.2 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

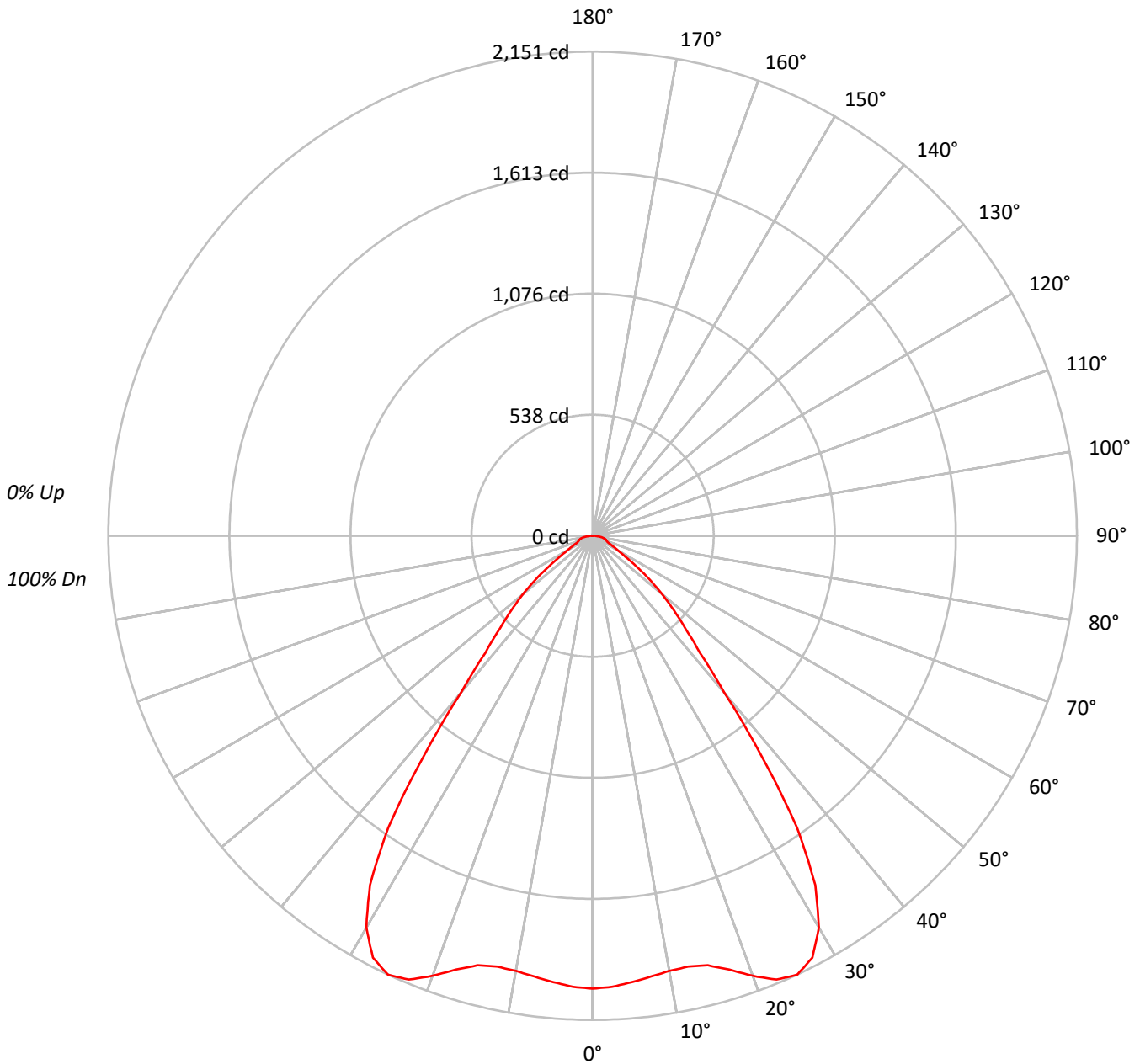
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
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	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°	62036
5°	61611
10°	61447
15°	63063
20°	68272
25°	73196
30°	71555
35°	59587
40°	36603
45°	25346
50°	19343
55°	12682
60°	7931
65°	5939
70°	5996
75°	6898
80°	7618
85°	6828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	5.4
10°-20°	567.0	16.1
20°-30°	976.2	27.6
30°-40°	945.8	26.8
40°-50°	465.8	13.2
50°-60°	219.8	6.2
60°-70°	86.6	2.5
70°-80°	59.8	1.7
80°-90°	22.2	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°	1732.4	49.0
0°-40°	2678.1	75.8
0°-60°	3363.8	95.2
0°-90°	3532.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2012	
5°	1990	189
15°	1975	567
25°	2151	976
35°	1583	946
45°	581	466
55°	236	220
65°	81	87
75°	58	60
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2011.8
2.5°	2005.4
5°	1990.4
7.5°	1975.4
10°	1962.4
12.5°	1960.3
15°	1975.4
17.5°	2020.3
20°	2080.5
22.5°	2134.1
25°	2151.3
27.5°	2112.6
30°	2009.6
32.5°	1840.2
35°	1582.9
37.5°	1229.0
40°	909.3
42.5°	705.7
45°	581.2
47.5°	489.0
50°	403.2
52.5°	317.5
55°	235.9
57.5°	171.6
60°	128.6
62.5°	100.8
65°	81.4
67.5°	70.7
70°	66.5
72.5°	62.2
75°	57.9
77.5°	51.5
80°	42.9
82.5°	32.2
85°	19.3
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)