

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: P584197

Luminaire Tested: **HC825D010-HM82555930-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584197
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: HC825D010-HM82555930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2611.2 lumens
Efficiency: N/A
Efficacy: 97.4 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

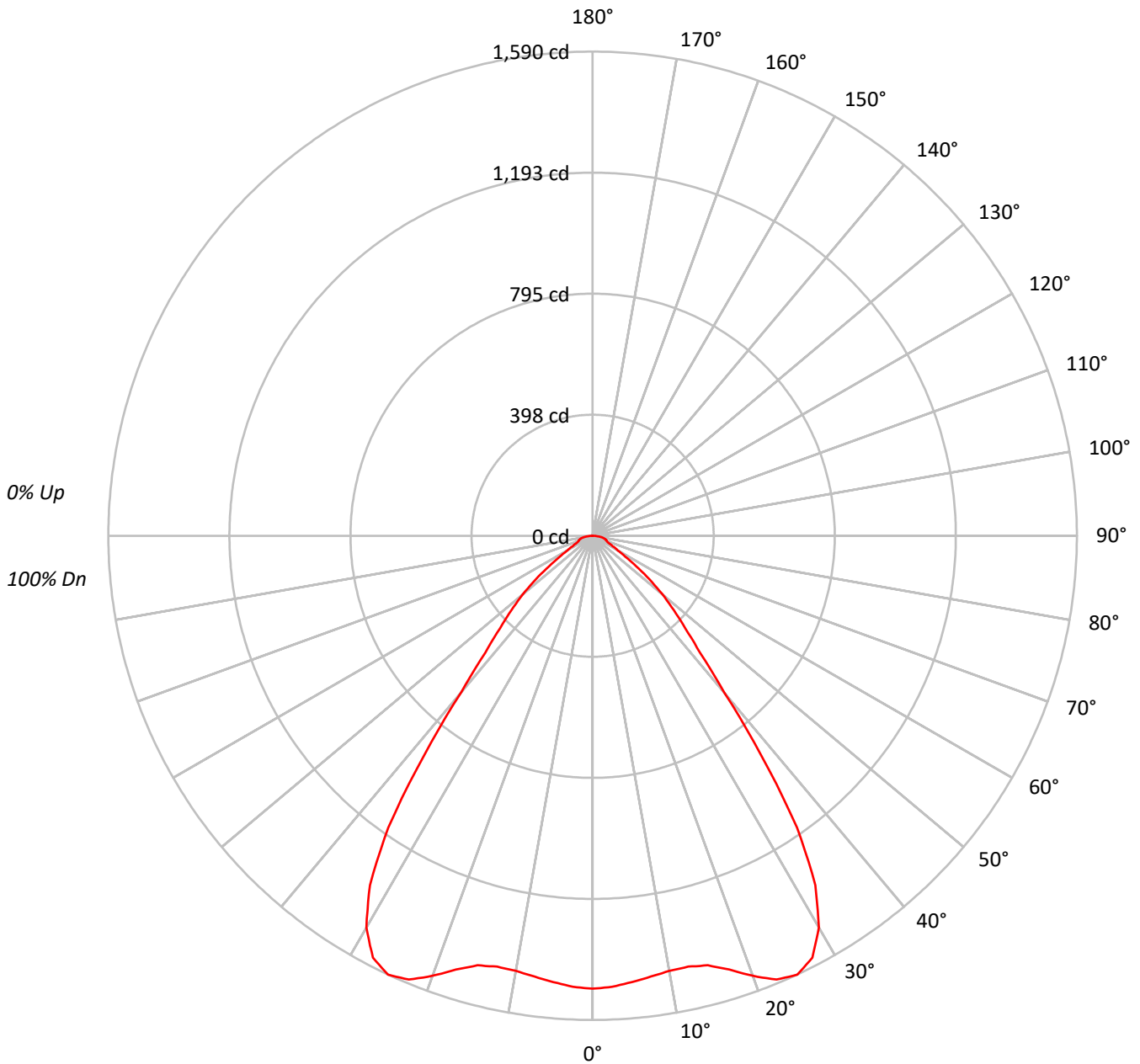
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584197

CATALOG NUMBER: HC825D010-HM82555930-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584197

CATALOG NUMBER: HC825D010-HM82555930-81WDWB

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°	45860
5°	45546
10°	45424
15°	46616
20°	50467
25°	54105
30°	52897
35°	44051
40°	27063
45°	18739
50°	14301
55°	9376
60°	5865
65°	4392
70°	4427
75°	5099
80°	5629
85°	5024



TEST NUMBER: P584197

CATALOG NUMBER: HC825D010-HM82555930-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	5.4
10°-20°	419.2	16.1
20°-30°	721.6	27.6
30°-40°	699.2	26.8
40°-50°	344.4	13.2
50°-60°	162.5	6.2
60°-70°	64.0	2.5
70°-80°	44.2	1.7
80°-90°	16.4	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°	1280.6	49.0
0°-40°	1979.8	75.8
0°-60°	2486.7	95.2
0°-90°	2611.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1487	
5°	1471	140
15°	1460	419
25°	1590	722
35°	1170	699
45°	430	344
55°	174	163
65°	60	64
75°	43	44
85°	14	16
90°	0	



TEST NUMBER: P584197

CATALOG NUMBER: HC825D010-HM82555930-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1487.2
2.5°	1482.5
5°	1471.4
7.5°	1460.2
10°	1450.7
12.5°	1449.2
15°	1460.2
17.5°	1493.5
20°	1537.9
22.5°	1577.6
25°	1590.2
27.5°	1561.8
30°	1485.6
32.5°	1360.4
35°	1170.2
37.5°	908.5
40°	672.3
42.5°	521.6
45°	429.7
47.5°	361.4
50°	298.1
52.5°	234.7
55°	174.4
57.5°	126.8
60°	95.1
62.5°	74.5
65°	60.2
67.5°	52.3
70°	49.1
72.5°	46.0
75°	42.8
77.5°	38.1
80°	31.7
82.5°	23.8
85°	14.2
87.5°	6.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)