

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: P584104

Luminaire Tested: **HC825D010-HM82555827-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584104
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: HC825D010-HM82555827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2211.1 lumens
Efficiency: N/A
Efficacy: 82.5 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

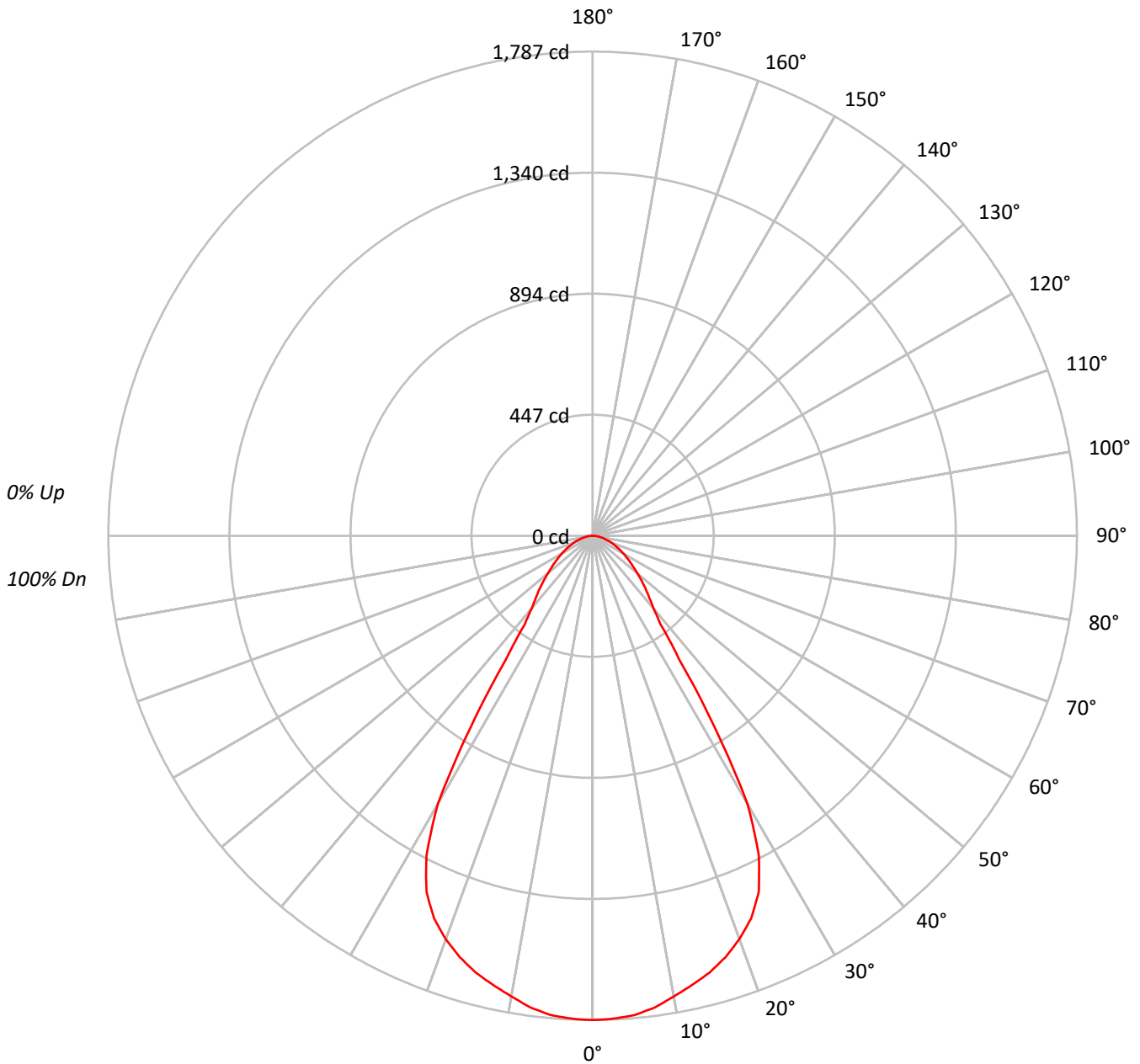
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90						90													
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81						81													
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73						73													
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67						67													
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61						61													
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56						56													
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52						52													
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48						48													
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45						45													
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42						42													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55111
5°	54965
10°	54048
15°	53259
20°	51983
25°	49345
30°	40702
35°	20953
40°	14029
45°	12027
50°	10381
55°	9059
60°	8048
65°	7231
70°	6555
75°	5898
80°	5274
85°	5272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	7.6
10°-20°	469.4	21.2
20°-30°	650.4	29.4
30°-40°	390.6	17.7
40°-50°	213.8	9.7
50°-60°	151.9	6.9
60°-70°	98.6	4.5
70°-80°	52.7	2.4
80°-90°	15.7	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°	1287.7	58.2
0°-40°	1678.3	75.9
0°-60°	2044.0	92.4
0°-90°	2211.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1787	
5°	1776	168
15°	1668	469
25°	1450	650
35°	557	391
45°	276	214
55°	168	152
65°	99	99
75°	50	53
85°	15	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1787.2
2.5°	1784.0
5°	1775.7
7.5°	1755.9
10°	1726.1
12.5°	1698.1
15°	1668.3
17.5°	1630.4
20°	1584.1
22.5°	1528.0
25°	1450.3
27.5°	1328.1
30°	1143.1
32.5°	837.5
35°	556.6
37.5°	411.3
40°	348.5
42.5°	308.9
45°	275.8
47.5°	244.5
50°	216.4
52.5°	189.9
55°	168.5
57.5°	148.6
60°	130.5
62.5°	114.0
65°	99.1
67.5°	84.2
70°	72.7
72.5°	59.5
75°	49.5
77.5°	39.7
80°	29.7
82.5°	21.5
85°	14.9
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)