

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: P583946

Luminaire Tested: **HC815D010-HM80520935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583946
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: HC815D010-HM80520935-81WDWB
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: 1671.9 lumens
Efficiency: N/A
Efficacy: 119.4 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

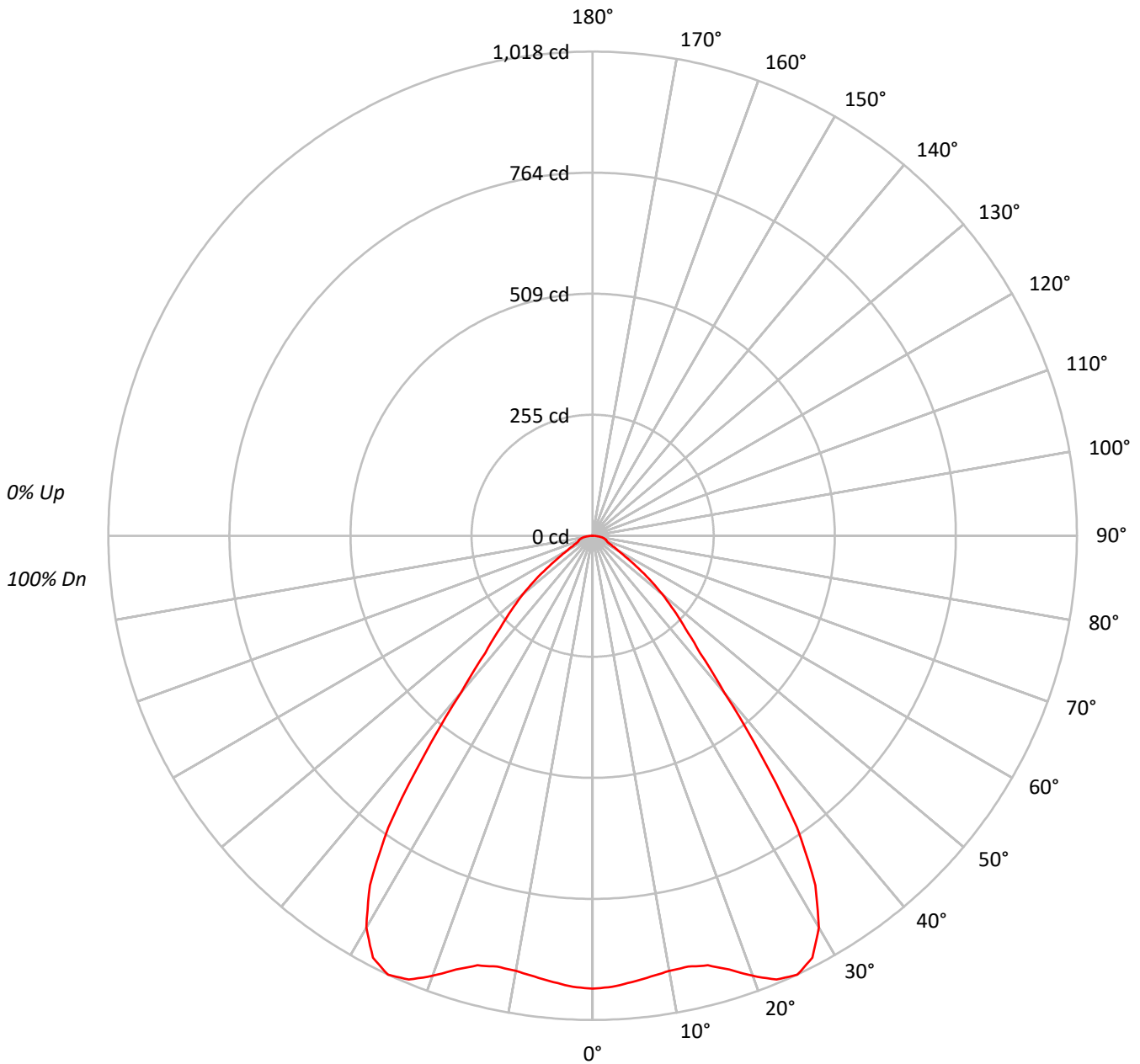
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90	90	90	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81	81	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49	49	49	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45	45	45	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41	41	41	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38	38	38	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29362
5°	29162
10°	29083
15°	29849
20°	32313
25°	34643
30°	33869
35°	28199
40°	17325
45°	11997
50°	9158
55°	6005
60°	3756
65°	2816
70°	2840
75°	3265
80°	3587
85°	3255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	5.4
10°-20°	268.4	16.1
20°-30°	462.0	27.6
30°-40°	447.6	26.8
40°-50°	220.5	13.2
50°-60°	104.1	6.2
60°-70°	41.0	2.5
70°-80°	28.2	1.7
80°-90°	10.5	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°	819.9	49.0
0°-40°	1267.6	75.8
0°-60°	1592.1	95.2
0°-90°	1671.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	952	
5°	942	90
15°	935	268
25°	1018	462
35°	749	448
45°	275	221
55°	112	104
65°	39	41
75°	27	28
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	952.2
2.5°	949.2
5°	942.1
7.5°	935.0
10°	928.8
12.5°	927.8
15°	935.0
17.5°	956.3
20°	984.7
22.5°	1010.0
25°	1018.2
27.5°	999.9
30°	951.2
32.5°	871.0
35°	749.1
37.5°	581.7
40°	430.4
42.5°	334.0
45°	275.1
47.5°	231.5
50°	190.9
52.5°	150.3
55°	111.7
57.5°	81.2
60°	60.9
62.5°	47.7
65°	38.6
67.5°	33.5
70°	31.5
72.5°	29.4
75°	27.4
77.5°	24.3
80°	20.2
82.5°	15.2
85°	9.2
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)