

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: P583928

Luminaire Tested: **HC815D010-HM80520930-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520930-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1476.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

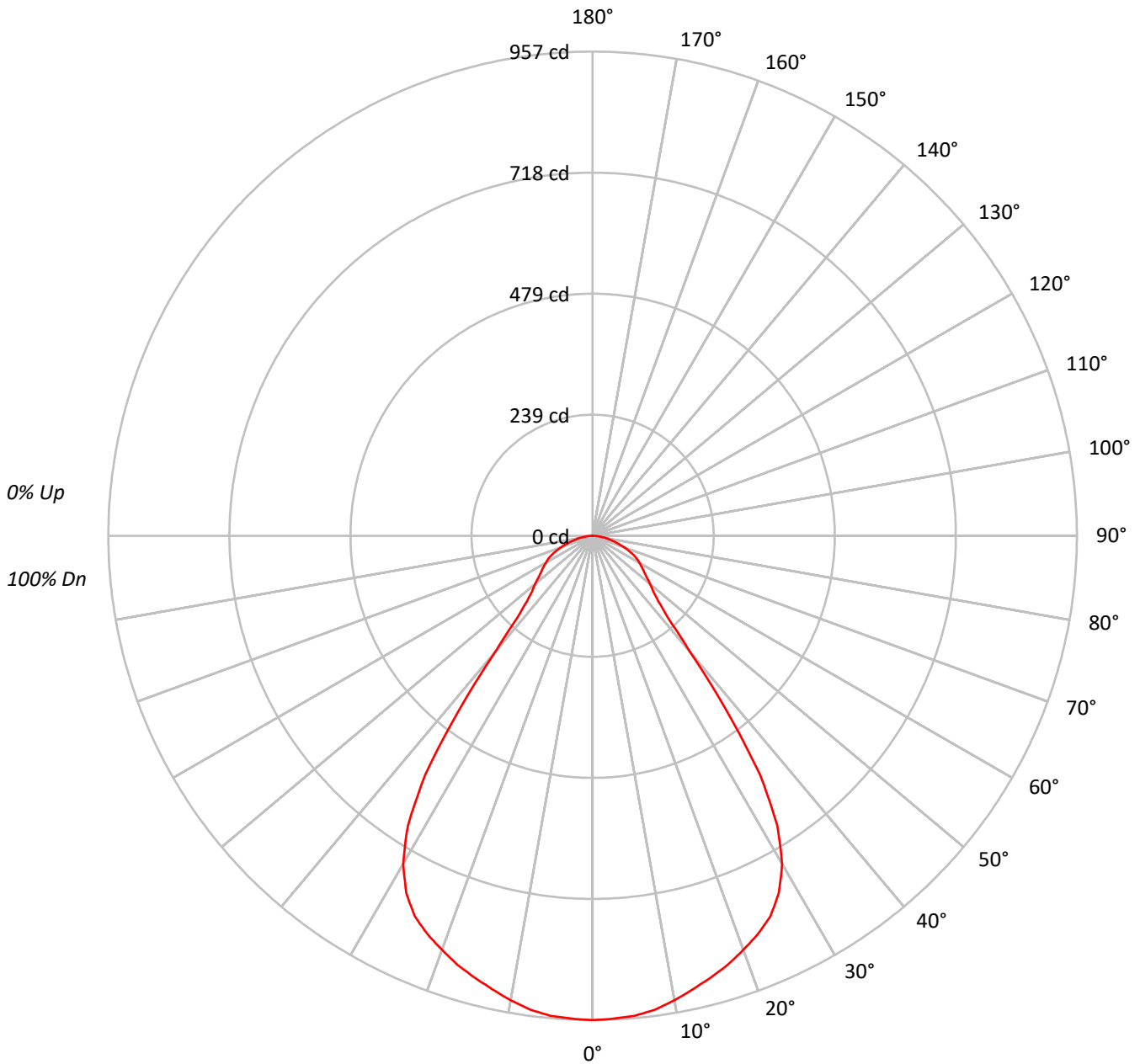
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52				52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29520
5°	29481
10°	29192
15°	28840
20°	28572
25°	28254
30°	26659
35°	21706
40°	11992
45°	8002
50°	7100
55°	6666
60°	6574
65°	6523
70°	5887
75°	5266
80°	4599
85°	4104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	6.1
10°-20°	255.1	17.3
20°-30°	379.0	25.7
30°-40°	341.3	23.1
40°-50°	151.3	10.2
50°-60°	112.1	7.6
60°-70°	87.1	5.9
70°-80°	47.2	3.2
80°-90°	13.0	0.9
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°	724.4	49.1
0°-40°	1065.7	72.2
0°-60°	1329.1	90.0
0°-90°	1476.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	957	
5°	952	90
15°	903	255
25°	830	379
35°	577	341
45°	184	151
55°	124	112
65°	89	87
75°	44	47
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	957.3
2.5°	955.3
5°	952.4
7.5°	944.7
10°	932.3
12.5°	917.8
15°	903.4
17.5°	889.0
20°	870.7
22.5°	852.5
25°	830.4
27.5°	796.7
30°	748.7
32.5°	679.5
35°	576.6
37.5°	430.5
40°	297.9
42.5°	220.0
45°	183.5
47.5°	162.4
50°	148.0
52.5°	134.6
55°	124.0
57.5°	115.3
60°	106.6
62.5°	99.1
65°	89.4
67.5°	77.8
70°	65.3
72.5°	54.8
75°	44.2
77.5°	34.6
80°	25.9
82.5°	18.3
85°	11.6
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)