

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: P583850

Luminaire Tested: **HC815D010-HM80520830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1574.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

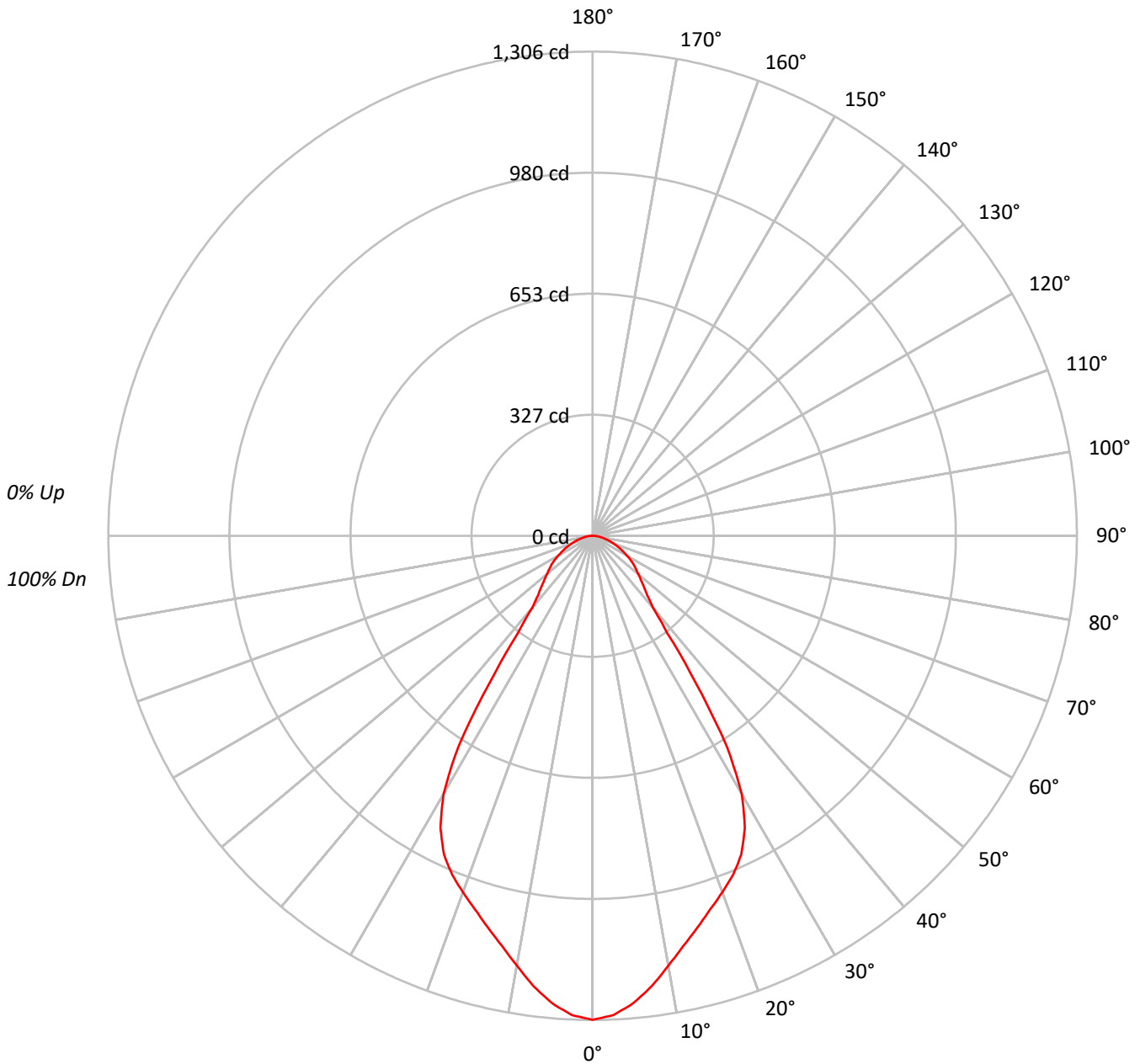
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40263
5°	39163
10°	36854
15°	34896
20°	33567
25°	32272
30°	28660
35°	18254
40°	10184
45°	8534
50°	7700
55°	7263
60°	6624
65°	5969
70°	5265
75°	4682
80°	4155
85°	3750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	7.5
10°-20°	308.3	19.6
20°-30°	430.1	27.3
30°-40°	309.5	19.7
40°-50°	153.4	9.7
50°-60°	120.0	7.6
60°-70°	81.2	5.2
70°-80°	42.2	2.7
80°-90°	12.1	0.8
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°	856.3	54.4
0°-40°	1165.7	74.0
0°-60°	1439.1	91.4
0°-90°	1574.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1306	
5°	1265	118
15°	1093	308
25°	948	430
35°	485	309
45°	196	153
55°	135	120
65°	82	81
75°	39	42
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1305.7
2.5°	1294.0
5°	1265.2
7.5°	1224.9
10°	1177.0
12.5°	1132.3
15°	1093.1
17.5°	1055.8
20°	1022.9
22.5°	989.9
25°	948.5
27.5°	888.9
30°	804.9
32.5°	673.1
35°	484.9
37.5°	330.7
40°	253.0
42.5°	218.0
45°	195.7
47.5°	176.5
50°	160.5
52.5°	146.8
55°	135.1
57.5°	121.2
60°	107.4
62.5°	93.6
65°	81.8
67.5°	70.1
70°	58.4
72.5°	48.9
75°	39.3
77.5°	30.8
80°	23.4
82.5°	17.0
85°	10.6
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)