

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: P583537

Luminaire Tested: **HC805D010-HM80520935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583537
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: HC805D010-HM80520935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.9 lumens
Efficiency: N/A
Efficacy: 115.3 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

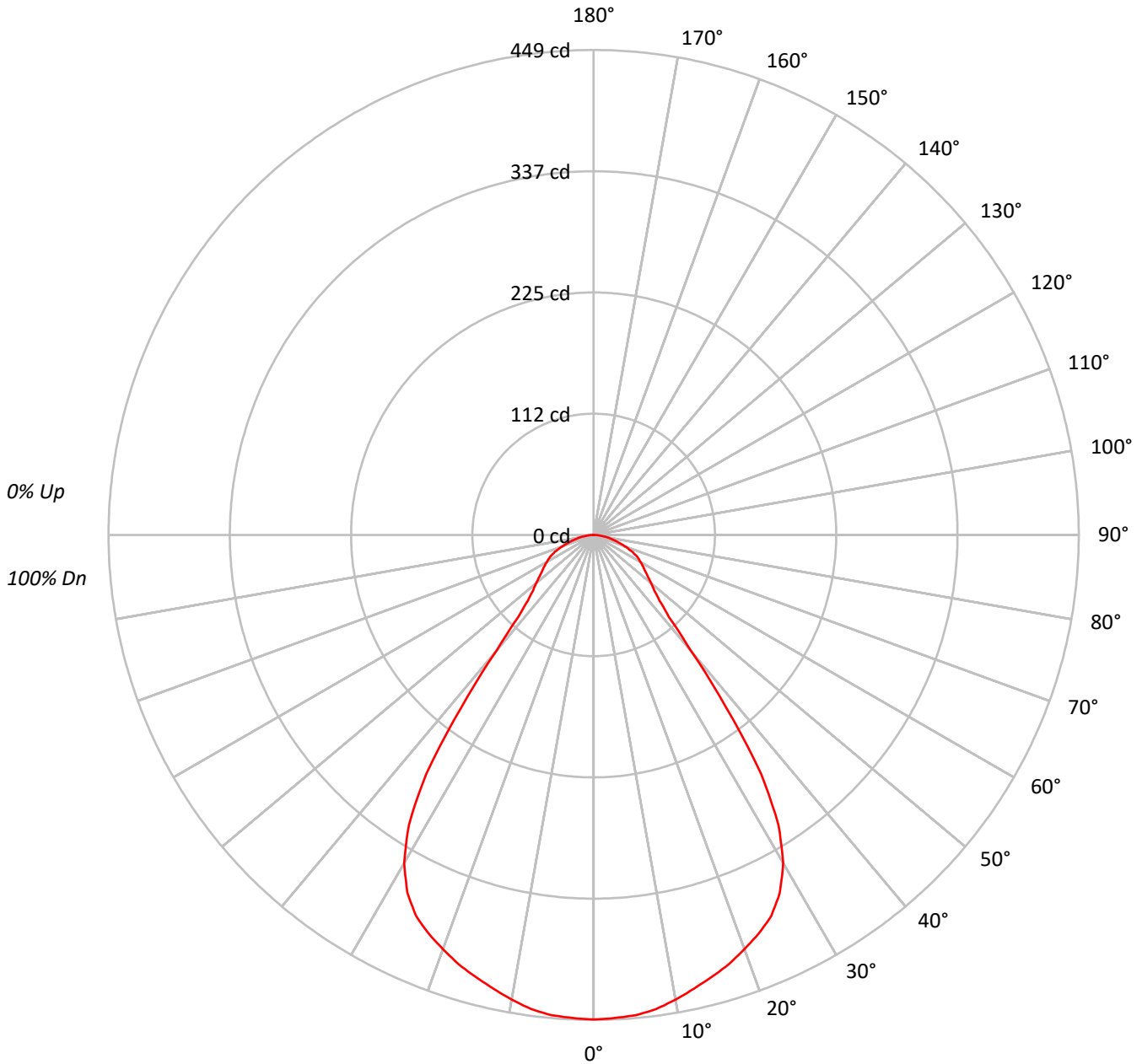
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	13833
5°	13818
10°	13680
15°	13517
20°	13392
25°	13239
30°	12491
35°	10175
40°	5619
45°	3755
50°	3325
55°	3124
60°	3084
65°	3057
70°	2759
75°	2466
80°	2166
85°	1911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	6.1
10°-20°	119.5	17.3
20°-30°	177.6	25.7
30°-40°	160.0	23.1
40°-50°	70.9	10.3
50°-60°	52.5	7.6
60°-70°	40.8	5.9
70°-80°	22.1	3.2
80°-90°	6.1	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°	339.5	49.1
0°-40°	499.4	72.2
0°-60°	622.9	90.0
0°-90°	691.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	449	
5°	446	42
15°	423	120
25°	389	178
35°	270	160
45°	86	71
55°	58	53
65°	42	41
75°	21	22
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	448.6
2.5°	447.7
5°	446.4
7.5°	442.8
10°	436.9
12.5°	430.1
15°	423.4
17.5°	416.6
20°	408.1
22.5°	399.4
25°	389.1
27.5°	373.3
30°	350.8
32.5°	318.4
35°	270.3
37.5°	201.8
40°	139.6
42.5°	103.2
45°	86.1
47.5°	76.1
50°	69.3
52.5°	63.1
55°	58.1
57.5°	54.1
60°	50.0
62.5°	46.4
65°	41.9
67.5°	36.5
70°	30.6
72.5°	25.6
75°	20.7
77.5°	16.2
80°	12.2
82.5°	8.5
85°	5.4
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)