

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: P593474

Luminaire Tested: **HC805D010-HM80520950-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593474
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: HC805D010-HM80520950-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 621.1 lumens
Efficiency: N/A
Efficacy: 103.5 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

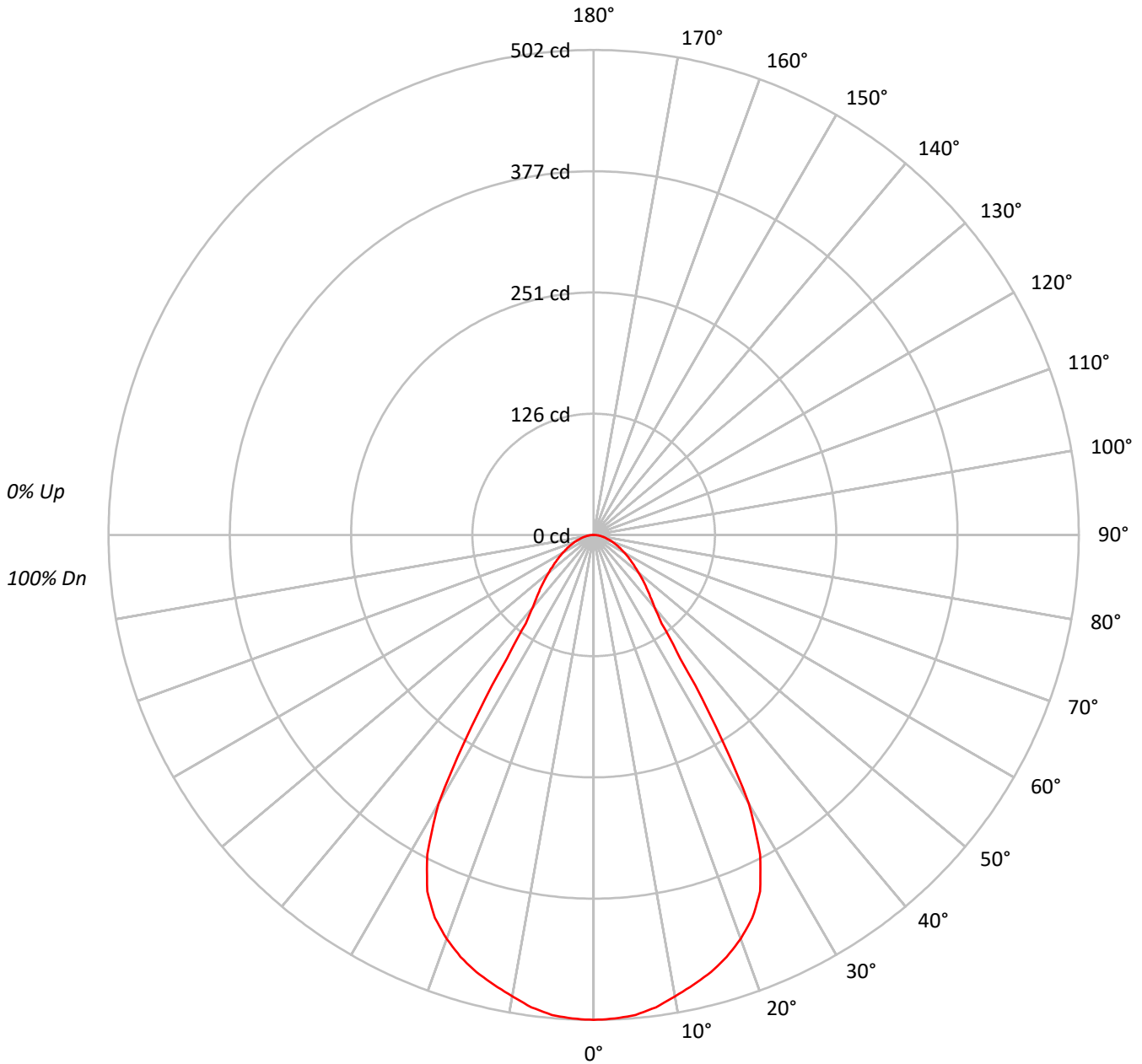
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	15480
5°	15440
10°	15183
15°	14960
20°	14600
25°	13858
30°	11430
35°	5884
40°	3941
45°	3375
50°	2917
55°	2543
60°	2257
65°	2036
70°	1848
75°	1656
80°	1492
85°	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	7.6
10°-20°	131.8	21.2
20°-30°	182.6	29.4
30°-40°	109.7	17.7
40°-50°	60.1	9.7
50°-60°	42.7	6.9
60°-70°	27.7	4.5
70°-80°	14.8	2.4
80°-90°	4.4	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°	361.7	58.2
0°-40°	471.4	75.9
0°-60°	574.1	92.4
0°-90°	621.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	502	
5°	499	47
15°	469	132
25°	407	183
35°	156	110
45°	77	60
55°	47	43
65°	28	28
75°	14	15
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	502.0
2.5°	501.1
5°	498.8
7.5°	493.2
10°	484.9
12.5°	477.0
15°	468.6
17.5°	458.0
20°	444.9
22.5°	429.1
25°	407.3
27.5°	373.0
30°	321.0
32.5°	235.2
35°	156.3
37.5°	115.5
40°	97.9
42.5°	86.8
45°	77.4
47.5°	68.7
50°	60.8
52.5°	53.4
55°	47.3
57.5°	41.8
60°	36.6
62.5°	32.0
65°	27.9
67.5°	23.7
70°	20.5
72.5°	16.8
75°	13.9
77.5°	11.1
80°	8.4
82.5°	6.0
85°	4.2
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)