

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: P593476

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593476
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-HM80520950-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 712.5 lumens
Efficiency: N/A
Efficacy: 118.7 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

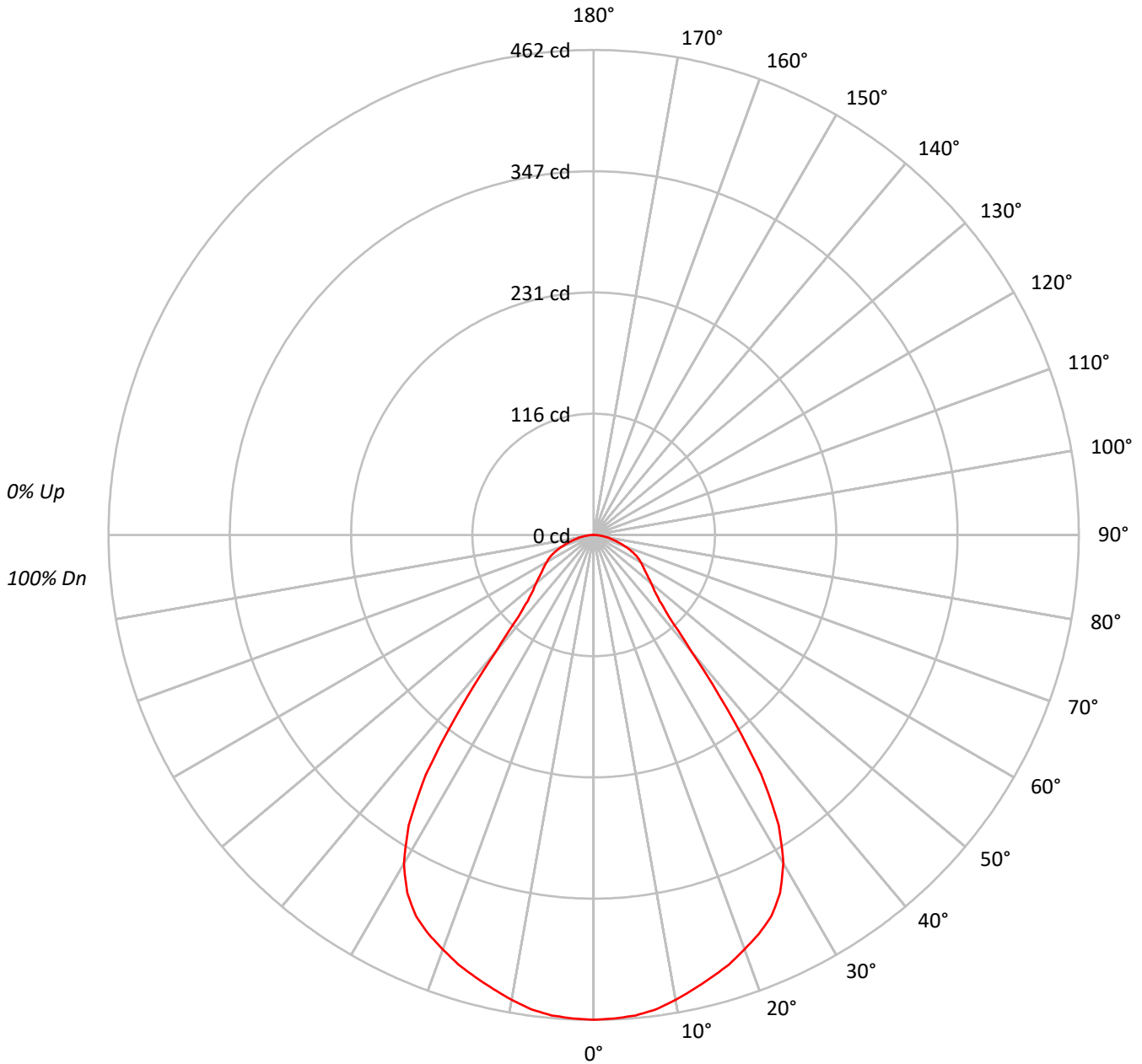
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14243
5°	14223
10°	14084
15°	13916
20°	13786
25°	13630
30°	12865
35°	10476
40°	5789
45°	3864
50°	3430
55°	3215
60°	3176
65°	3145
70°	2840
75°	2538
80°	2237
85°	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	6.1
10°-20°	123.1	17.3
20°-30°	182.9	25.7
30°-40°	164.7	23.1
40°-50°	73.0	10.3
50°-60°	54.1	7.6
60°-70°	42.1	5.9
70°-80°	22.8	3.2
80°-90°	6.3	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°	349.5	49.1
0°-40°	514.3	72.2
0°-60°	641.4	90.0
0°-90°	712.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	462	
5°	460	44
15°	436	123
25°	401	183
35°	278	165
45°	89	73
55°	60	54
65°	43	42
75°	21	23
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	461.9
2.5°	461.0
5°	459.5
7.5°	455.8
10°	449.8
12.5°	442.9
15°	435.9
17.5°	429.0
20°	420.1
22.5°	411.3
25°	400.6
27.5°	384.5
30°	361.3
32.5°	327.9
35°	278.3
37.5°	207.8
40°	143.8
42.5°	106.2
45°	88.6
47.5°	78.4
50°	71.5
52.5°	64.9
55°	59.8
57.5°	55.7
60°	51.5
62.5°	47.8
65°	43.1
67.5°	37.6
70°	31.5
72.5°	26.5
75°	21.3
77.5°	16.6
80°	12.6
82.5°	8.9
85°	5.5
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)