

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: P593459

Luminaire Tested: **HC805D010-HM80520850-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593459
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-HM80520850-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 810.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

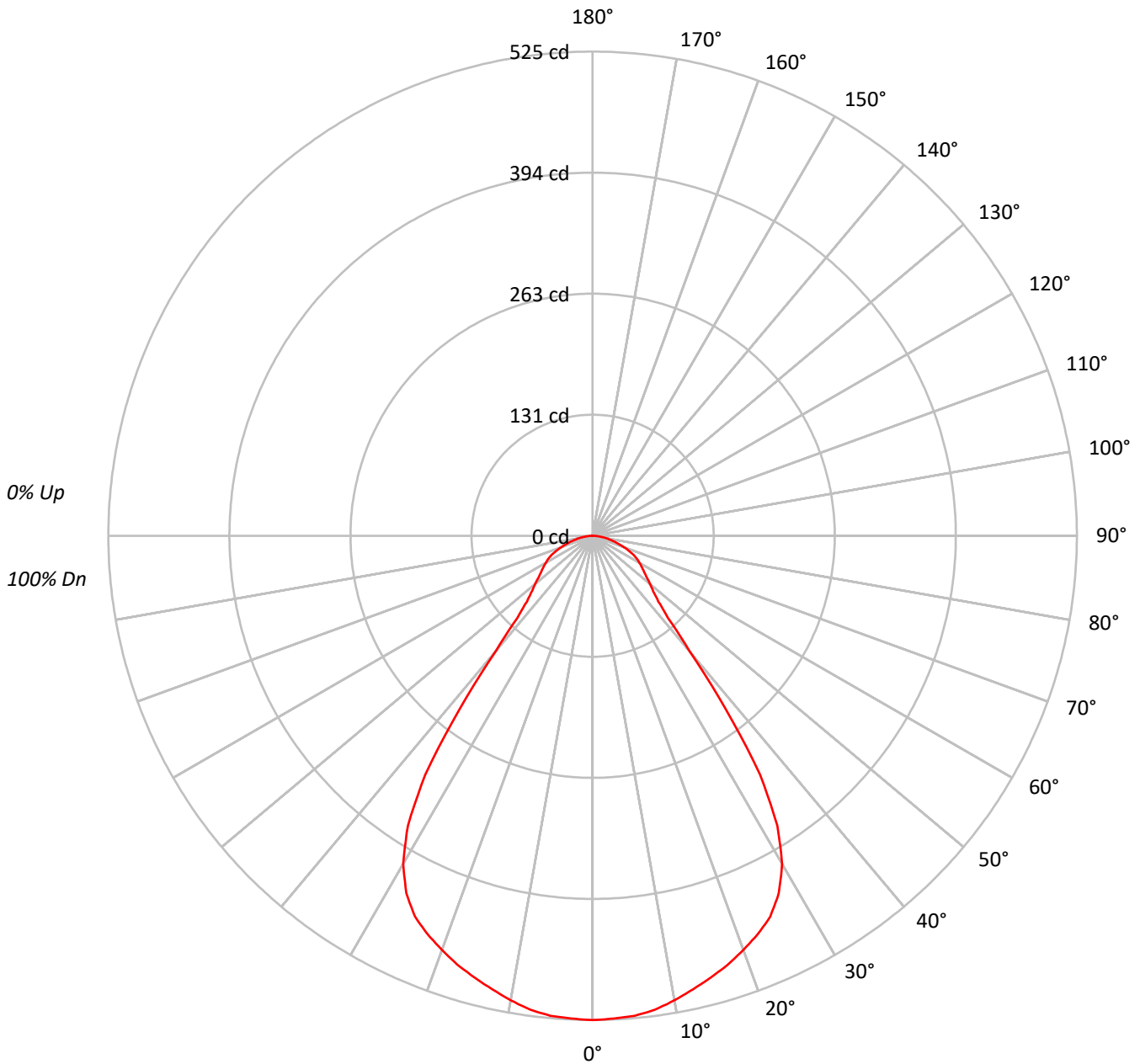
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	16192
5°	16174
10°	16016
15°	15822
20°	15676
25°	15501
30°	14624
35°	11911
40°	6577
45°	4391
50°	3895
55°	3656
60°	3608
65°	3583
70°	3237
75°	2895
80°	2522
85°	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	6.1
10°-20°	139.9	17.3
20°-30°	207.9	25.7
30°-40°	187.3	23.1
40°-50°	83.0	10.2
50°-60°	61.5	7.6
60°-70°	47.8	5.9
70°-80°	25.9	3.2
80°-90°	7.1	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°	397.4	49.1
0°-40°	584.7	72.2
0°-60°	729.2	90.0
0°-90°	810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	525	
5°	522	50
15°	496	140
25°	456	208
35°	316	187
45°	101	83
55°	68	62
65°	49	48
75°	24	26
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	525.1
2.5°	524.0
5°	522.5
7.5°	518.3
10°	511.5
12.5°	503.6
15°	495.6
17.5°	487.7
20°	477.7
22.5°	467.7
25°	455.6
27.5°	437.1
30°	410.7
32.5°	372.7
35°	316.4
37.5°	236.2
40°	163.4
42.5°	120.8
45°	100.7
47.5°	89.1
50°	81.2
52.5°	73.9
55°	68.0
57.5°	63.3
60°	58.5
62.5°	54.3
65°	49.1
67.5°	42.7
70°	35.9
72.5°	30.0
75°	24.3
77.5°	19.0
80°	14.2
82.5°	10.1
85°	6.3
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)