

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: P583544

Luminaire Tested: **HC805D010-HM80520940-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583544
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: HC805D010-HM80520940-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 686.8 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

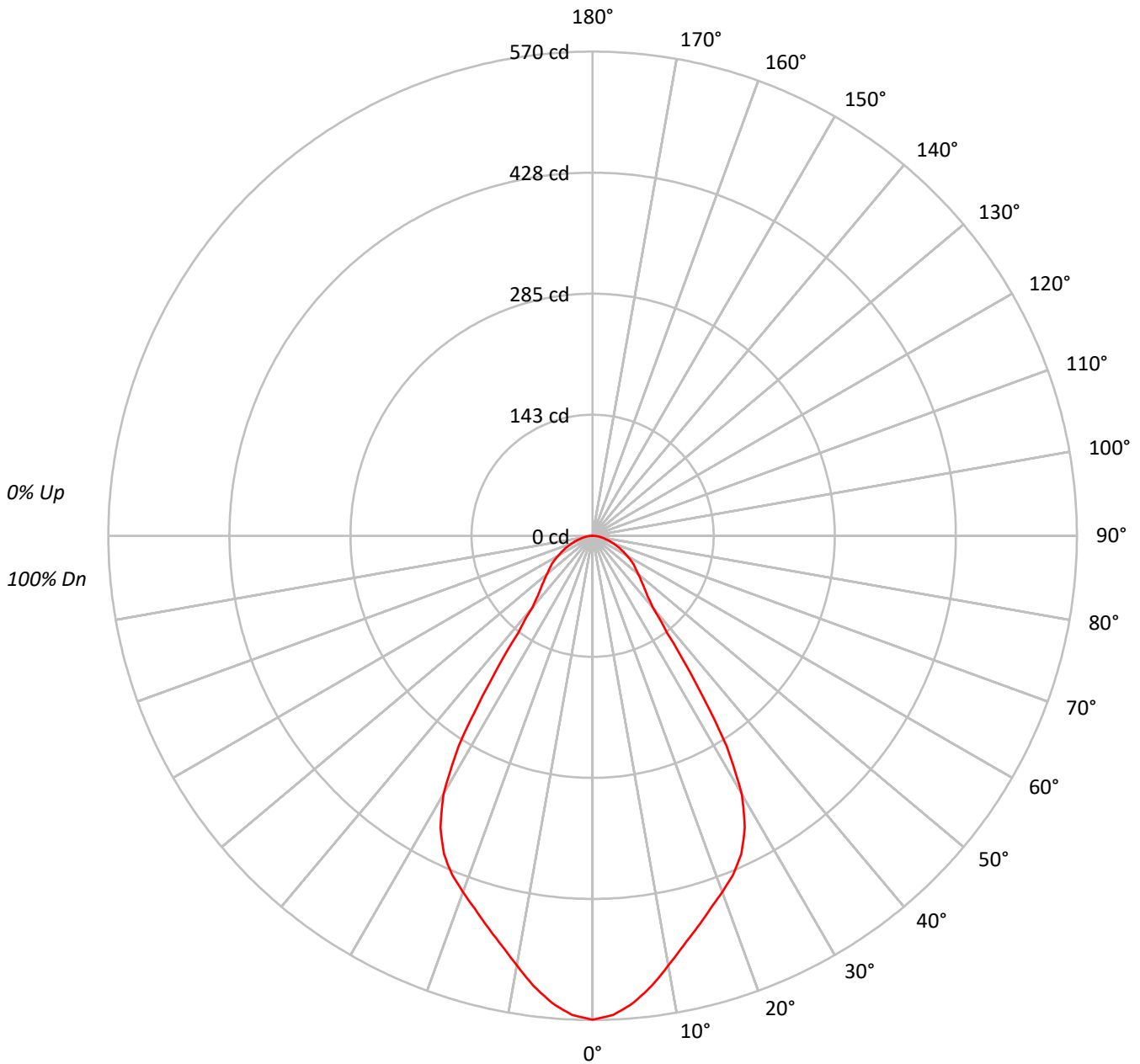
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583544

CATALOG NUMBER: HC805D010-HM80520940-81MDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17567
5°	17084
10°	16079
15°	15225
20°	14642
25°	14079
30°	12502
35°	7962
40°	4444
45°	3720
50°	3358
55°	3167
60°	2886
65°	2605
70°	2299
75°	2037
80°	1811
85°	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	7.5
10°-20°	134.5	19.6
20°-30°	187.6	27.3
30°-40°	135.0	19.7
40°-50°	66.9	9.7
50°-60°	52.3	7.6
60°-70°	35.4	5.2
70°-80°	18.4	2.7
80°-90°	5.3	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°	373.6	54.4
0°-40°	508.5	74.0
0°-60°	627.7	91.4
0°-90°	686.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	570	
5°	552	51
15°	477	134
25°	414	188
35°	212	135
45°	85	67
55°	59	52
65°	36	35
75°	17	18
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	569.7
2.5°	564.5
5°	551.9
7.5°	534.3
10°	513.5
12.5°	494.0
15°	476.9
17.5°	460.6
20°	446.2
22.5°	431.9
25°	413.8
27.5°	387.8
30°	351.1
32.5°	293.6
35°	211.5
37.5°	144.2
40°	110.4
42.5°	95.0
45°	85.3
47.5°	77.0
50°	70.0
52.5°	64.0
55°	58.9
57.5°	52.9
60°	46.8
62.5°	40.8
65°	35.7
67.5°	30.6
70°	25.5
72.5°	21.3
75°	17.1
77.5°	13.4
80°	10.2
82.5°	7.4
85°	4.7
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)