

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: P583453

Luminaire Tested: **HC805D010-HM80520830-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 777.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

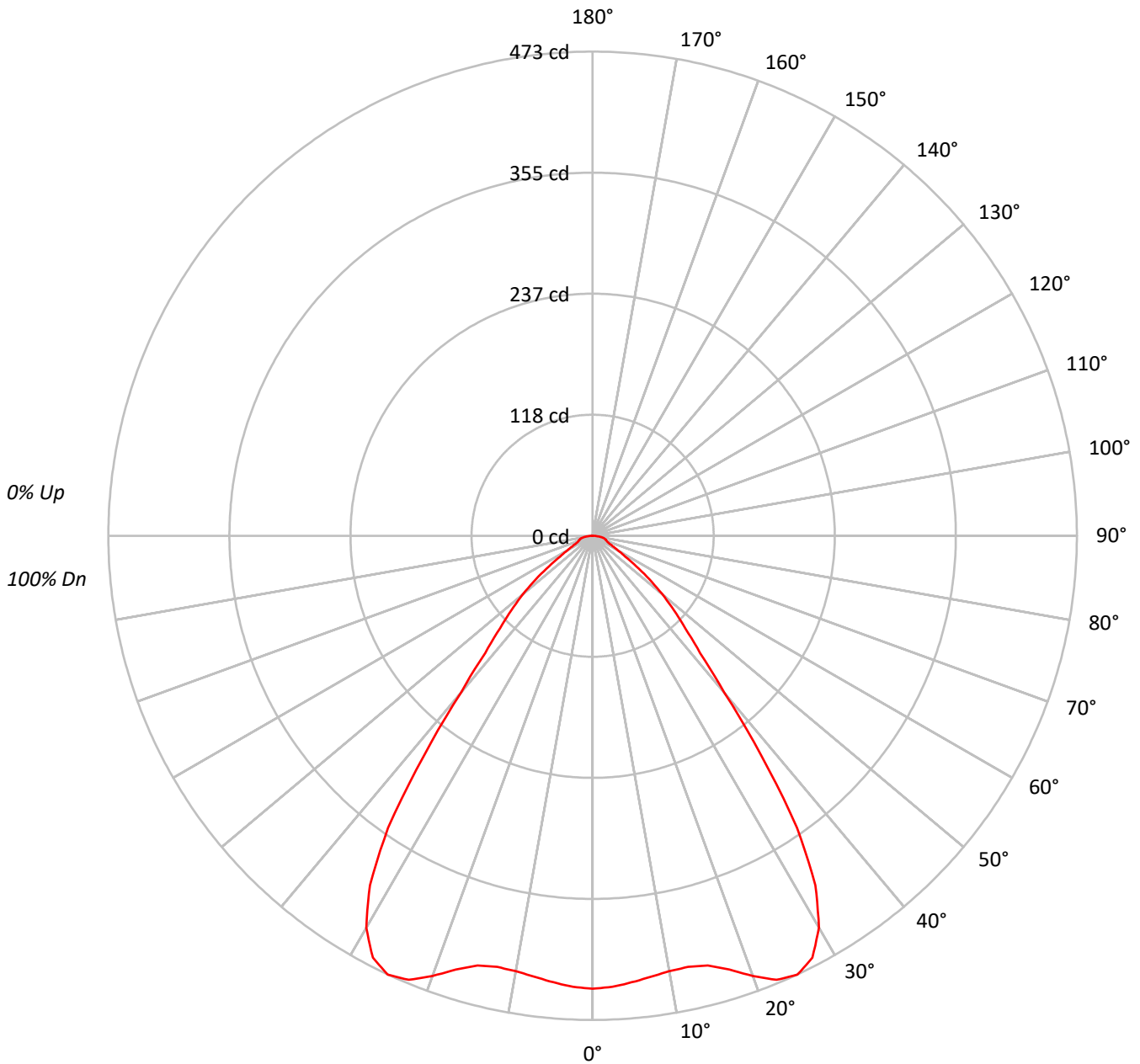
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13645
5°	13555
10°	13521
15°	13871
20°	15016
25°	16100
30°	15742
35°	13108
40°	8051
45°	5573
50°	4255
55°	2790
60°	1739
65°	1313
70°	1316
75°	1513
80°	1687
85°	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	5.4
10°-20°	124.7	16.1
20°-30°	214.7	27.6
30°-40°	208.1	26.8
40°-50°	102.5	13.2
50°-60°	48.3	6.2
60°-70°	19.0	2.5
70°-80°	13.1	1.7
80°-90°	4.9	0.6
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°	381.1	49.0
0°-40°	589.1	75.8
0°-60°	739.9	95.2
0°-90°	777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	777.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	442	
5°	438	42
15°	434	125
25°	473	215
35°	348	208
45°	128	102
55°	52	48
65°	18	19
75°	13	13
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	442.5
2.5°	441.1
5°	437.9
7.5°	434.5
10°	431.8
12.5°	431.3
15°	434.5
17.5°	444.4
20°	457.6
22.5°	469.5
25°	473.2
27.5°	464.7
30°	442.1
32.5°	404.8
35°	348.2
37.5°	270.4
40°	200.0
42.5°	155.3
45°	127.8
47.5°	107.6
50°	88.7
52.5°	69.8
55°	51.9
57.5°	37.7
60°	28.2
62.5°	22.1
65°	18.0
67.5°	15.6
70°	14.6
72.5°	13.6
75°	12.7
77.5°	11.4
80°	9.5
82.5°	7.1
85°	4.2
87.5°	1.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)