

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: P583504

Luminaire Tested: **HC805D010-HM80520927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583504
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-HM80520927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 634.4 lumens
Efficiency: N/A
Efficacy: 105.7 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

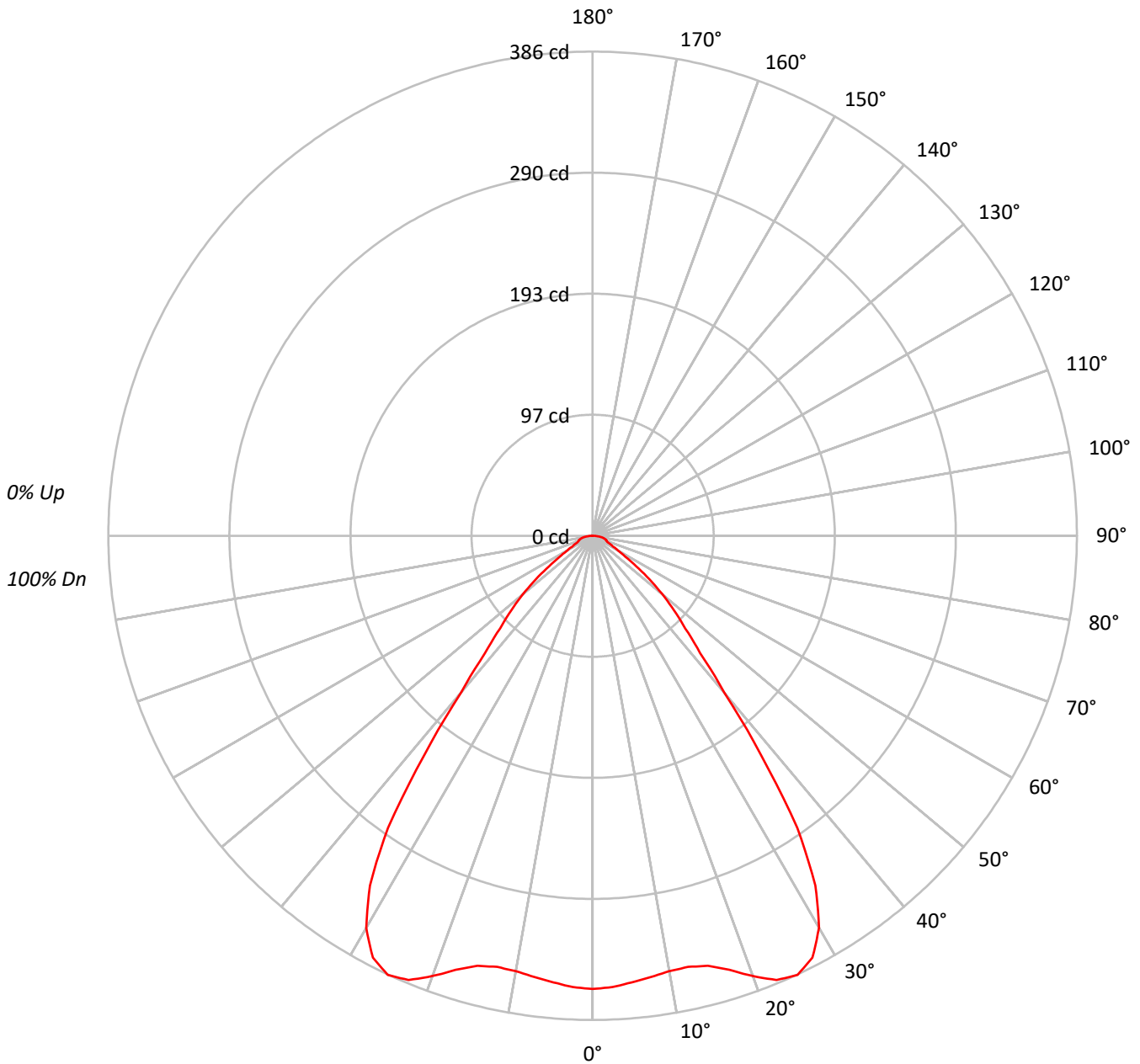
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11141
5°	11063
10°	11034
15°	11327
20°	12260
25°	13144
30°	12850
35°	10702
40°	6573
45°	4553
50°	3473
55°	2279
60°	1425
65°	1065
70°	1082
75°	1239
80°	1367
85°	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	5.4
10°-20°	101.8	16.1
20°-30°	175.3	27.6
30°-40°	169.9	26.8
40°-50°	83.7	13.2
50°-60°	39.5	6.2
60°-70°	15.6	2.5
70°-80°	10.7	1.7
80°-90°	4.0	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°	311.1	49.0
0°-40°	480.9	75.8
0°-60°	604.1	95.2
0°-90°	634.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	361	
5°	357	34
15°	355	102
25°	386	175
35°	284	170
45°	104	84
55°	42	39
65°	15	16
75°	10	11
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	361.3
2.5°	360.2
5°	357.4
7.5°	354.8
10°	352.4
12.5°	352.0
15°	354.8
17.5°	362.8
20°	373.6
22.5°	383.3
25°	386.3
27.5°	379.3
30°	360.9
32.5°	330.5
35°	284.3
37.5°	220.7
40°	163.3
42.5°	126.8
45°	104.4
47.5°	87.9
50°	72.4
52.5°	57.0
55°	42.4
57.5°	30.8
60°	23.1
62.5°	18.1
65°	14.6
67.5°	12.7
70°	12.0
72.5°	11.1
75°	10.4
77.5°	9.2
80°	7.7
82.5°	5.7
85°	3.5
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)