

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: P584713

Luminaire Tested: **HC845D010-HM82555927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584713
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: HC845D010-HM82555927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3932.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

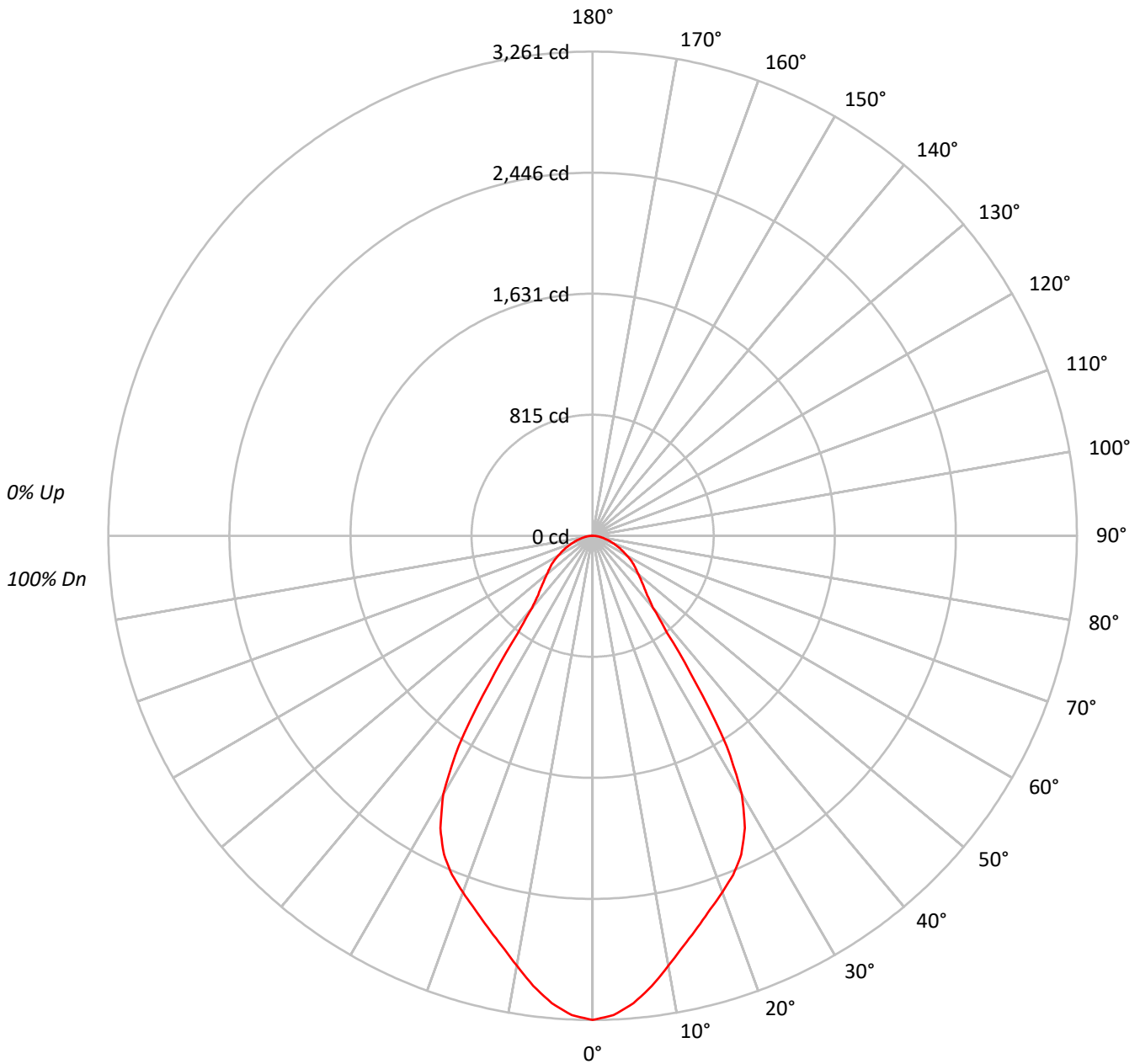
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	100554
5°	97812
10°	92042
15°	87146
20°	83830
25°	80590
30°	71577
35°	45583
40°	25440
45°	21307
50°	19232
55°	18128
60°	16534
65°	14921
70°	13163
75°	11712
80°	10371
85°	9376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	7.5
10°-20°	769.9	19.6
20°-30°	1074.0	27.3
30°-40°	772.8	19.7
40°-50°	383.0	9.7
50°-60°	299.6	7.6
60°-70°	202.8	5.2
70°-80°	105.4	2.7
80°-90°	30.3	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°	2138.5	54.4
0°-40°	2911.3	74.0
0°-60°	3593.9	91.4
0°-90°	3932.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3932.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3261	
5°	3160	295
15°	2730	770
25°	2369	1074
35°	1211	773
45°	489	383
55°	337	300
65°	204	203
75°	98	105
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3260.9
2.5°	3231.7
5°	3159.9
7.5°	3059.1
10°	2939.5
12.5°	2828.1
15°	2729.8
17.5°	2636.9
20°	2554.6
22.5°	2472.2
25°	2368.6
27.5°	2220.0
30°	2010.2
32.5°	1680.9
35°	1210.9
37.5°	825.8
40°	632.0
42.5°	544.4
45°	488.6
47.5°	440.8
50°	400.9
52.5°	366.4
55°	337.2
57.5°	302.8
60°	268.1
62.5°	233.7
65°	204.5
67.5°	175.2
70°	146.0
72.5°	122.1
75°	98.3
77.5°	77.1
80°	58.4
82.5°	42.5
85°	26.5
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)