

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: P584671

Luminaire Tested: **HC845D010-HM82555830-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555830-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5116.4 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

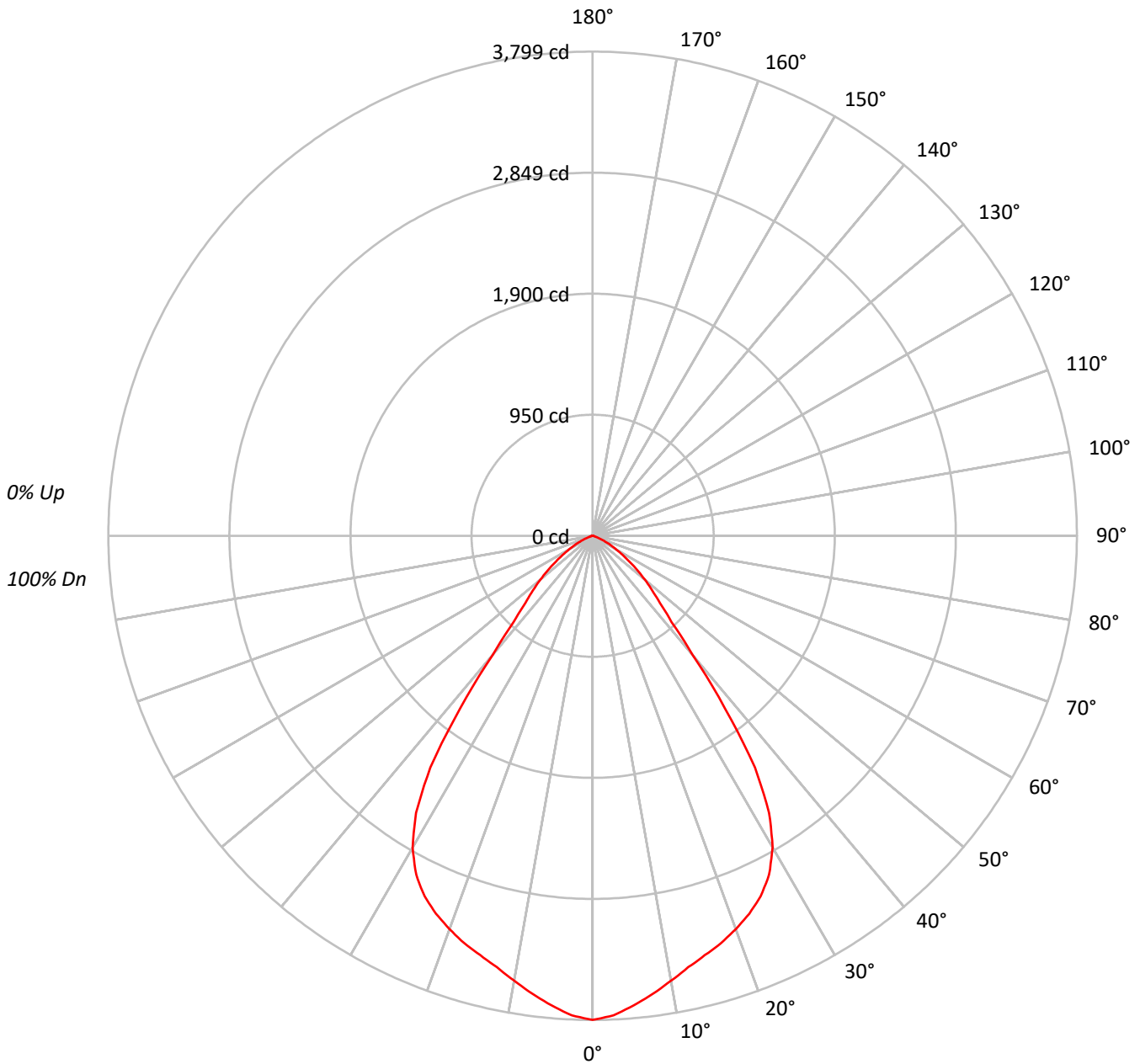
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68		
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62		
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57		
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	117135
5°	114496
10°	110989
15°	108743
20°	107766
25°	106152
30°	100553
35°	83544
40°	49202
45°	32545
50°	25613
55°	18849
60°	13093
65°	7975
70°	3480
75°	1537
80°	1154
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	6.8
10°-20°	963.0	18.8
20°-30°	1426.7	27.9
30°-40°	1318.4	25.8
40°-50°	607.9	11.9
50°-60°	319.7	6.2
60°-70°	113.0	2.2
70°-80°	17.7	0.3
80°-90°	1.8	0.0
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°	2738.0	53.5
0°-40°	4056.4	79.3
0°-60°	4984.0	97.4
0°-90°	5116.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5116.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3799	
5°	3699	348
15°	3406	963
25°	3120	1427
35°	2219	1318
45°	746	608
55°	351	320
65°	109	113
75°	13	18
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3798.6
2.5°	3766.5
5°	3698.9
7.5°	3624.9
10°	3544.6
12.5°	3467.4
15°	3406.3
17.5°	3351.5
20°	3284.0
22.5°	3210.0
25°	3119.9
27.5°	2997.7
30°	2824.0
32.5°	2576.4
35°	2219.3
37.5°	1704.7
40°	1222.3
42.5°	916.7
45°	746.3
47.5°	633.7
50°	533.9
52.5°	437.4
55°	350.6
57.5°	276.6
60°	212.3
62.5°	160.8
65°	109.3
67.5°	64.3
70°	38.6
72.5°	22.5
75°	12.9
77.5°	9.6
80°	6.5
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)