

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: P584655

Luminaire Tested: **HC845D010-HM82555827-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555827-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5058.4 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

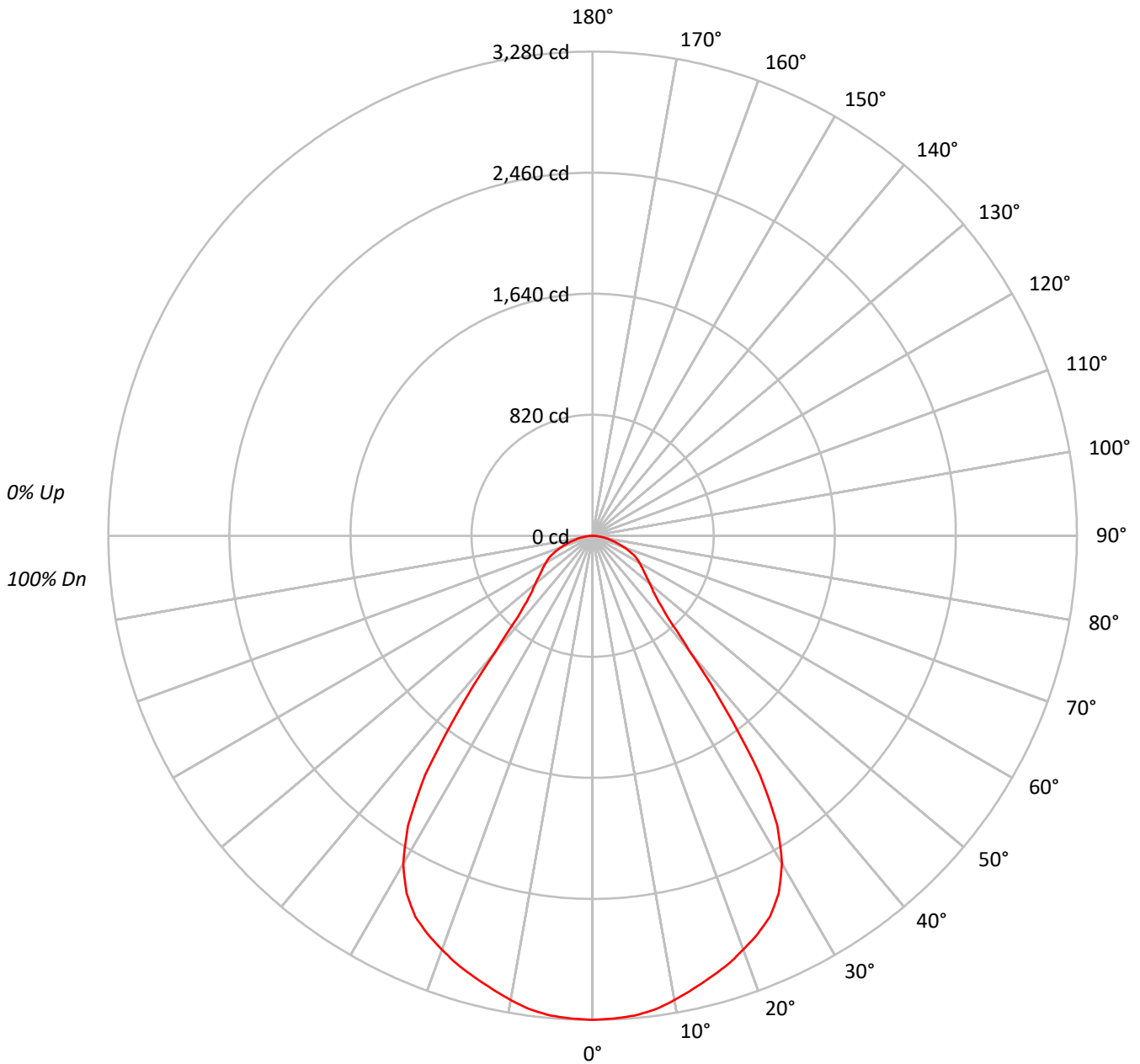
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101128
5°	101006
10°	100011
15°	98808
20°	97895
25°	96795
30°	91331
35°	74370
40°	41087
45°	27430
50°	24327
55°	22832
60°	22541
65°	22349
70°	20187
75°	18038
80°	15787
85°	13975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	6.1
10°-20°	873.9	17.3
20°-30°	1298.6	25.7
30°-40°	1169.4	23.1
40°-50°	518.5	10.2
50°-60°	383.9	7.6
60°-70°	298.6	5.9
70°-80°	161.9	3.2
80°-90°	44.3	0.9
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°	2481.8	49.1
0°-40°	3651.2	72.2
0°-60°	4553.6	90.0
0°-90°	5058.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5058.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3280	
5°	3263	309
15°	3095	874
25°	2845	1299
35°	1976	1169
45°	629	518
55°	425	384
65°	306	299
75°	151	162
85°	40	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3279.5
2.5°	3272.9
5°	3263.1
7.5°	3236.7
10°	3194.0
12.5°	3144.6
15°	3095.1
17.5°	3045.7
20°	2983.2
22.5°	2920.7
25°	2844.9
27.5°	2729.7
30°	2565.0
32.5°	2327.9
35°	1975.6
37.5°	1475.2
40°	1020.7
42.5°	754.0
45°	629.0
47.5°	556.5
50°	507.1
52.5°	461.0
55°	424.7
57.5°	395.1
60°	365.5
62.5°	339.1
65°	306.3
67.5°	266.7
70°	223.9
72.5°	187.7
75°	151.4
77.5°	118.6
80°	88.9
82.5°	62.5
85°	39.5
87.5°	16.4
90°	0.0



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— 0°-180°







(END OF REPORT)