

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: P584961

Luminaire Tested: **HC855D010-HM82555835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584961
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: HC855D010-HM82555835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5773.1 lumens
Efficiency: N/A
Efficacy: 111.0 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

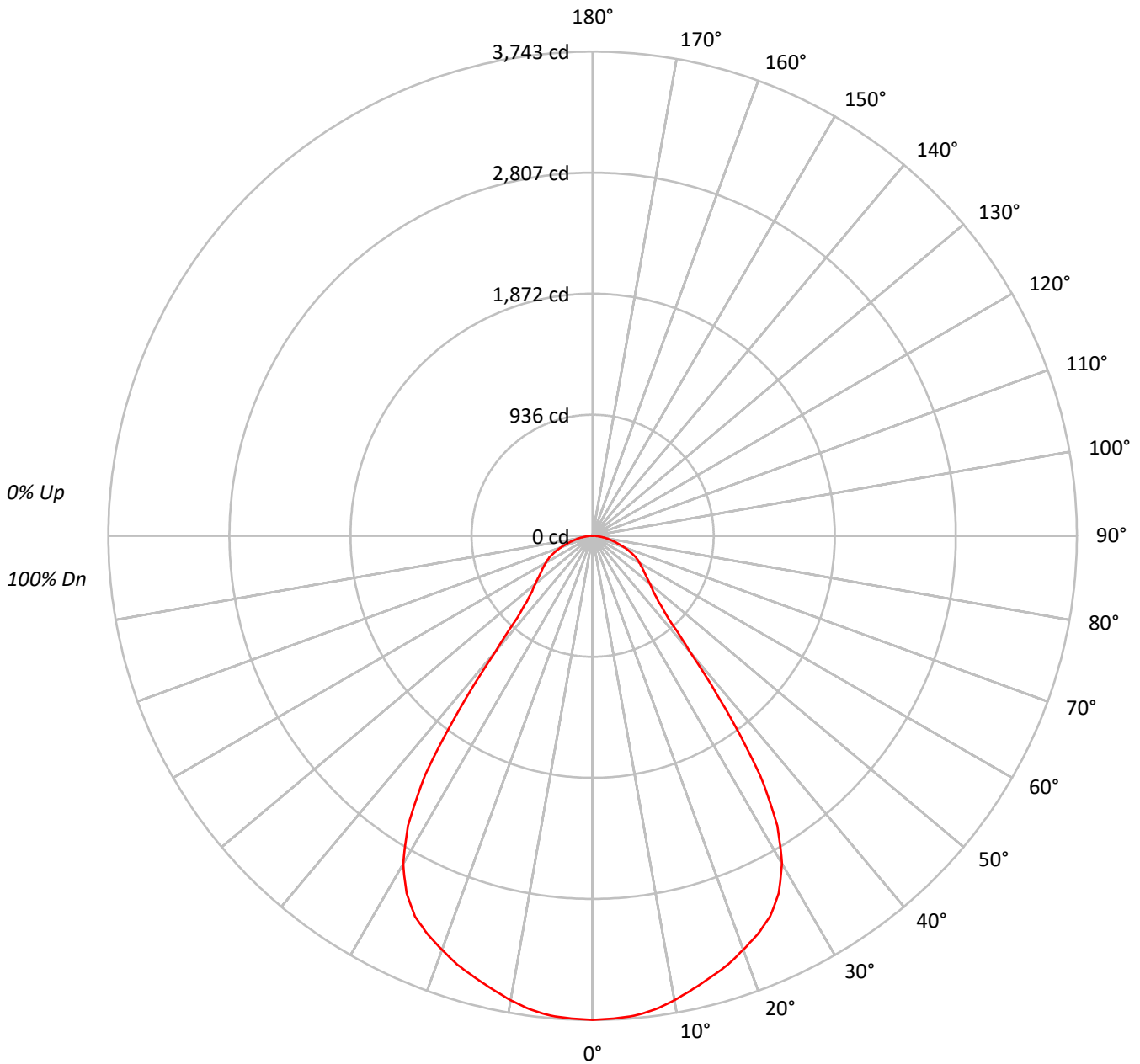
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	115417
5°	115276
10°	114139
15°	112769
20°	111726
25°	110469
30°	104235
35°	84880
40°	46896
45°	31298
50°	27762
55°	26058
60°	25724
65°	25501
70°	23036
75°	20600
80°	18024
85°	15957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	6.1
10°-20°	997.4	17.3
20°-30°	1482.0	25.7
30°-40°	1334.7	23.1
40°-50°	591.7	10.2
50°-60°	438.2	7.6
60°-70°	340.8	5.9
70°-80°	184.7	3.2
80°-90°	50.6	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°	2832.4	49.1
0°-40°	4167.1	72.2
0°-60°	5197.0	90.0
0°-90°	5773.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5773.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3743	
5°	3724	353
15°	3532	997
25°	3247	1482
35°	2255	1335
45°	718	592
55°	485	438
65°	350	341
75°	173	185
85°	45	51
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3742.9
2.5°	3735.4
5°	3724.1
7.5°	3694.0
10°	3645.2
12.5°	3588.8
15°	3532.4
17.5°	3476.0
20°	3404.7
22.5°	3333.3
25°	3246.8
27.5°	3115.3
30°	2927.4
32.5°	2656.8
35°	2254.8
37.5°	1683.6
40°	1165.0
42.5°	860.6
45°	717.7
47.5°	635.1
50°	578.7
52.5°	526.1
55°	484.7
57.5°	451.0
60°	417.1
62.5°	387.1
65°	349.5
67.5°	304.4
70°	255.5
72.5°	214.2
75°	172.9
77.5°	135.2
80°	101.5
82.5°	71.4
85°	45.1
87.5°	18.8
90°	0.0



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— 0°-180°







(END OF REPORT)