

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: P585029

Luminaire Tested: **HC855D010-HM82555935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585029
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-HM82555935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5383.7 lumens
Efficiency: N/A
Efficacy: 103.5 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

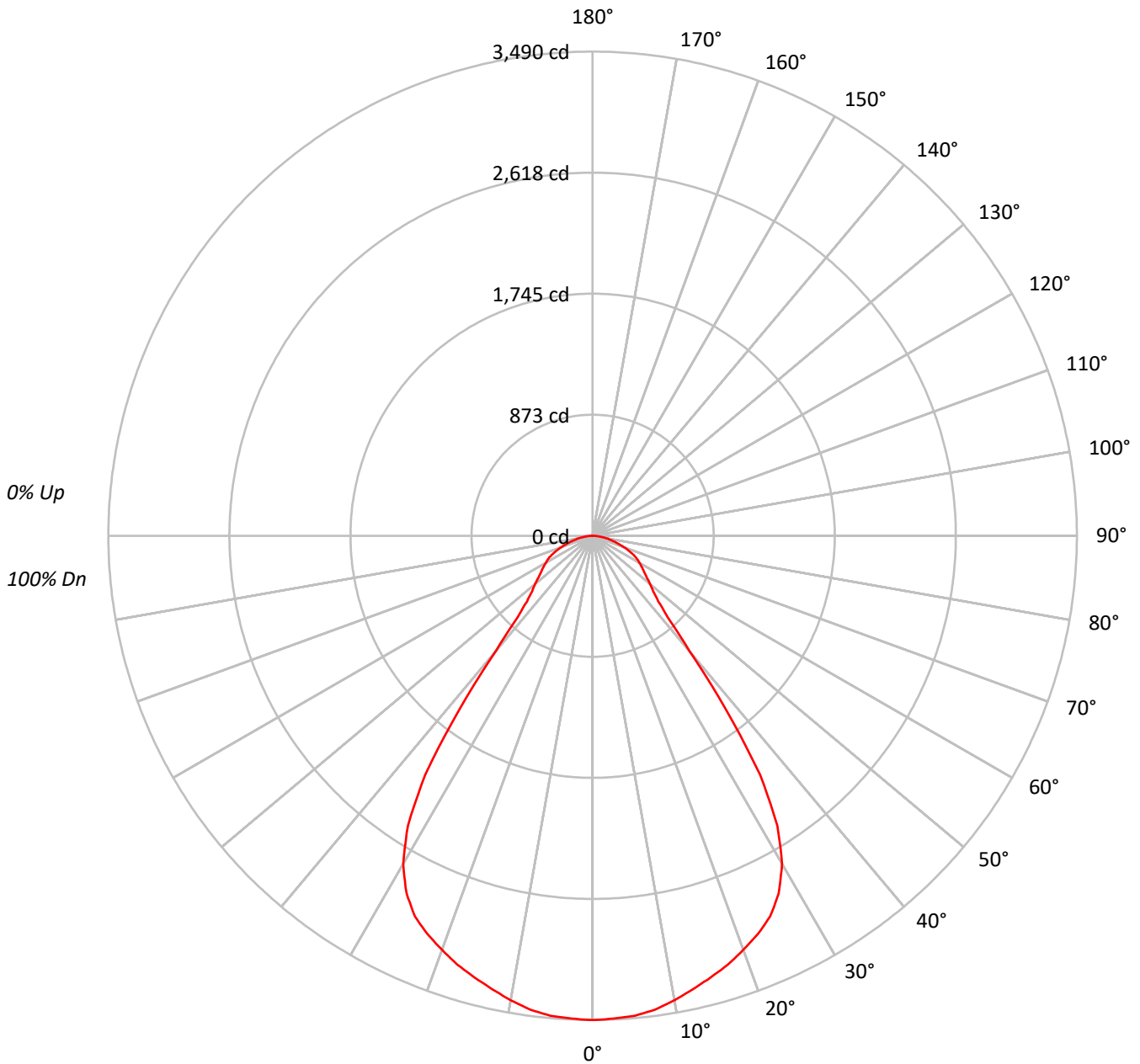
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	107634
5°	107504
10°	106442
15°	105168
20°	104192
25°	103022
30°	97203
35°	79154
40°	43732
45°	29188
50°	25891
55°	24300
60°	23991
65°	23779
70°	21485
75°	19194
80°	16799
85°	14895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.2	6.1
10°-20°	930.2	17.3
20°-30°	1382.1	25.7
30°-40°	1244.6	23.1
40°-50°	551.8	10.2
50°-60°	408.6	7.6
60°-70°	317.8	5.9
70°-80°	172.2	3.2
80°-90°	47.2	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°	2641.4	49.1
0°-40°	3886.1	72.2
0°-60°	4846.4	90.0
0°-90°	5383.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5383.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3490	
5°	3473	329
15°	3294	930
25°	3028	1382
35°	2103	1245
45°	669	552
55°	452	409
65°	326	318
75°	161	172
85°	42	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3490.5
2.5°	3483.4
5°	3473.0
7.5°	3444.9
10°	3399.4
12.5°	3346.8
15°	3294.3
17.5°	3241.6
20°	3175.1
22.5°	3108.5
25°	3027.9
27.5°	2905.2
30°	2729.9
32.5°	2477.6
35°	2102.7
37.5°	1570.0
40°	1086.4
42.5°	802.5
45°	669.3
47.5°	592.2
50°	539.7
52.5°	490.6
55°	452.0
57.5°	420.5
60°	389.0
62.5°	361.0
65°	325.9
67.5°	283.9
70°	238.3
72.5°	199.7
75°	161.1
77.5°	126.1
80°	94.6
82.5°	66.6
85°	42.1
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)