

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: P583014

Luminaire Tested: **HC655D010-HM64560830-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560830-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4971.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

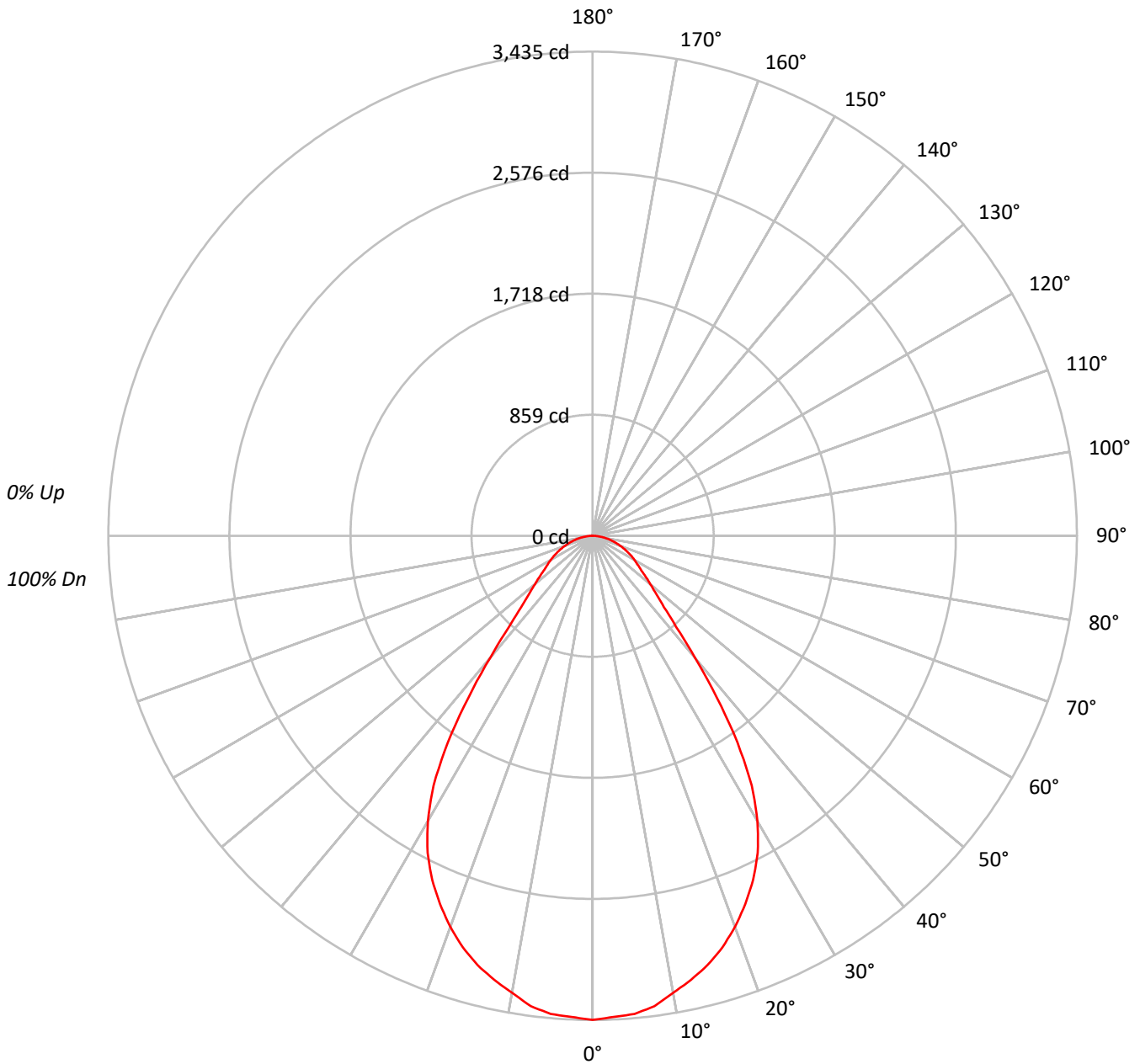
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188285
5°	187392
10°	183258
15°	178957
20°	172232
25°	162886
30°	148023
35°	119819
40°	80801
45°	55525
50°	45491
55°	39807
60°	37650
65°	35542
70°	33371
75°	31729
80°	28823
85°	25285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	6.5
10°-20°	885.5	17.8
20°-30°	1230.3	24.7
30°-40°	1095.4	22.0
40°-50°	581.5	11.7
50°-60°	380.2	7.6
60°-70°	272.5	5.5
70°-80°	158.0	3.2
80°-90°	46.2	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°	2437.2	49.0
0°-40°	3532.6	71.1
0°-60°	4494.3	90.4
0°-90°	4971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3435	
5°	3405	321
15°	3153	885
25°	2693	1230
35°	1790	1095
45°	716	581
55°	416	380
65°	274	272
75°	150	158
85°	40	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3434.6
2.5°	3416.3
5°	3405.3
7.5°	3365.2
10°	3292.1
12.5°	3226.3
15°	3153.2
17.5°	3061.8
20°	2952.3
22.5°	2828.1
25°	2692.9
27.5°	2535.8
30°	2338.4
32.5°	2100.9
35°	1790.4
37.5°	1446.9
40°	1129.1
42.5°	877.0
45°	716.2
47.5°	610.2
50°	533.4
52.5°	471.3
55°	416.5
57.5°	376.3
60°	343.4
62.5°	310.5
65°	274.0
67.5°	241.1
70°	208.2
72.5°	179.0
75°	149.8
77.5°	120.5
80°	91.3
82.5°	65.8
85°	40.2
87.5°	18.2
90°	0.0



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— 0°-180°







(END OF REPORT)