

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: P583011

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560830-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5044.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

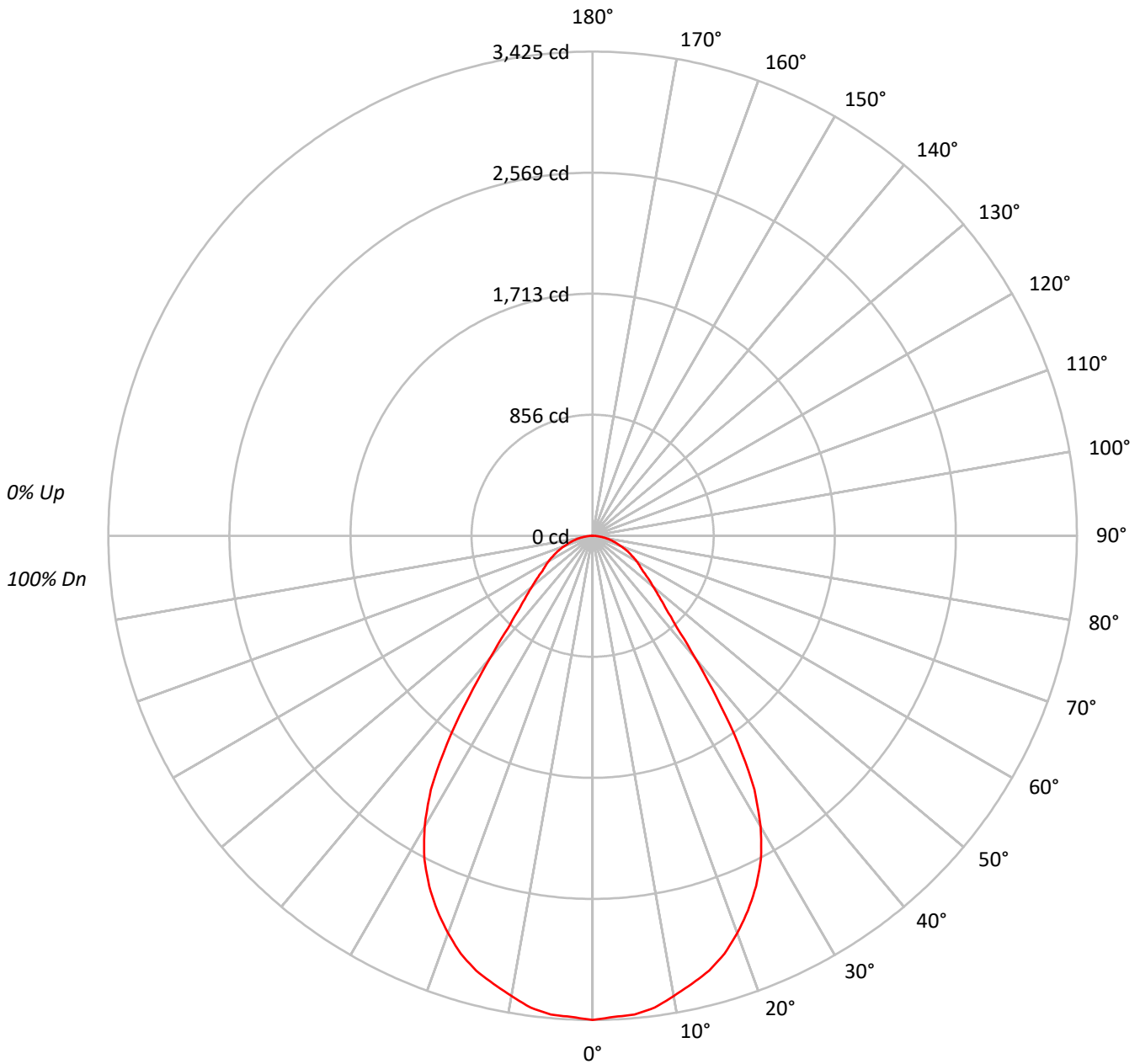
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	55	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°	187776
5°	187084
10°	183959
15°	180716
20°	174467
25°	165439
30°	150479
35°	120234
40°	80222
45°	57184
50°	47649
55°	41528
60°	39240
65°	36956
70°	33948
75°	31729
80°	28823
85°	25285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	6.4
10°-20°	894.1	17.7
20°-30°	1249.4	24.8
30°-40°	1100.6	21.8
40°-50°	594.6	11.8
50°-60°	397.6	7.9
60°-70°	281.8	5.6
70°-80°	158.5	3.1
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°	2465.0	48.9
0°-40°	3565.5	70.7
0°-60°	4557.7	90.4
0°-90°	5044.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5044.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3425	
5°	3400	322
15°	3184	894
25°	2735	1249
35°	1797	1101
45°	738	595
55°	434	398
65°	285	282
75°	150	158
85°	40	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3425.3
2.5°	3406.9
5°	3399.7
7.5°	3366.8
10°	3304.7
12.5°	3246.3
15°	3184.2
17.5°	3100.2
20°	2990.6
22.5°	2870.2
25°	2735.1
27.5°	2578.0
30°	2377.2
32.5°	2128.9
35°	1796.6
37.5°	1435.1
40°	1121.0
42.5°	883.7
45°	737.6
47.5°	639.1
50°	558.7
52.5°	493.0
55°	434.5
57.5°	394.4
60°	357.9
62.5°	321.3
65°	284.9
67.5°	248.3
70°	211.8
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)