

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: P583055

Luminaire Tested: **HC655D010-HM64560840-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560840-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6410.6 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

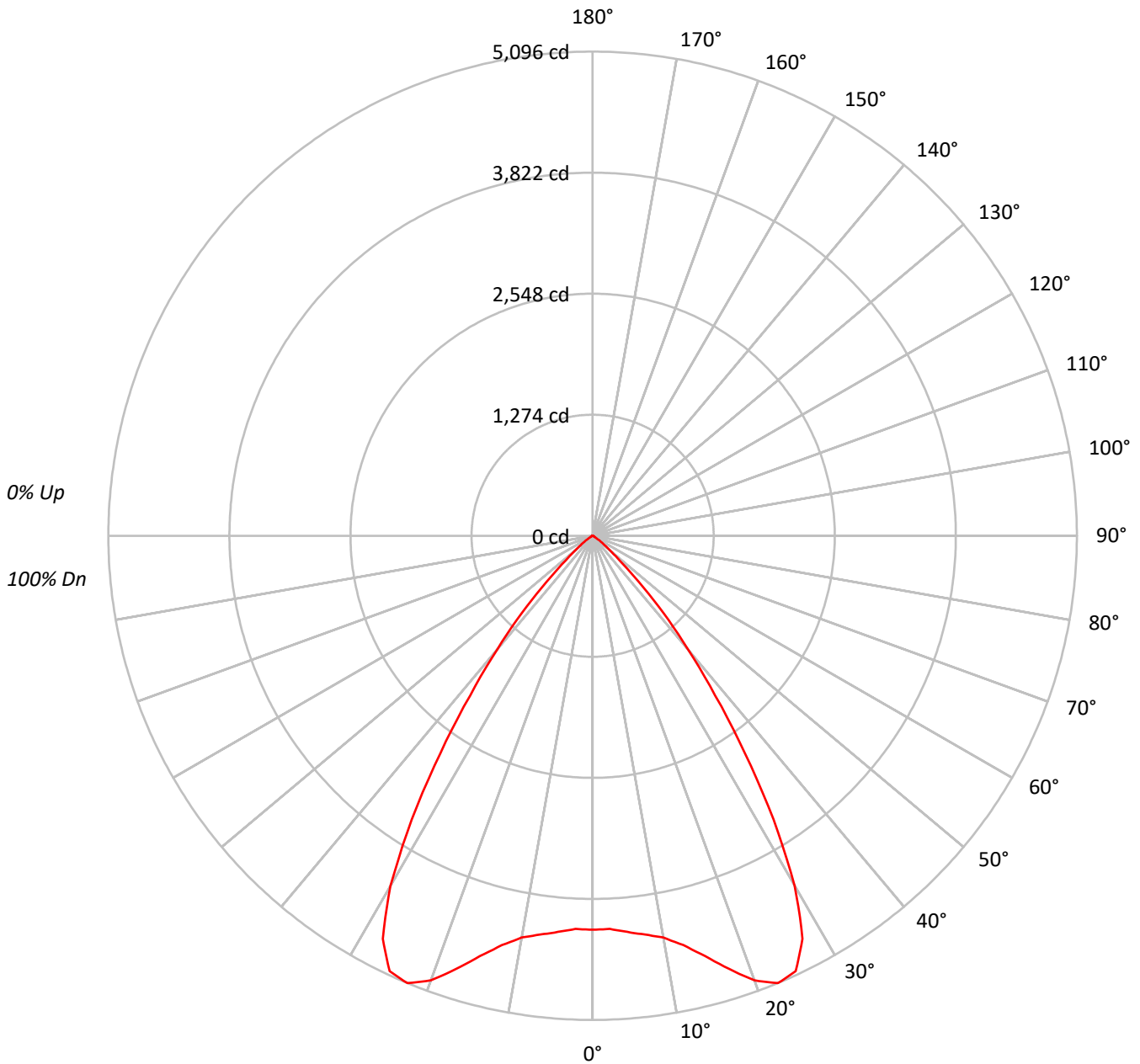
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	227268
5°	230326
10°	238962
15°	259871
20°	290549
25°	305818
30°	269219
35°	186735
40°	111502
45°	53006
50°	19999
55°	8353
60°	2620
65°	2062
70°	1266
75°	847
80°	1263
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	6.3
10°-20°	1314.8	20.5
20°-30°	2253.0	35.1
30°-40°	1749.7	27.3
40°-50°	578.4	9.0
50°-60°	88.7	1.4
60°-70°	15.7	0.2
70°-80°	5.8	0.1
80°-90°	1.6	0.0
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°	3970.6	61.9
0°-40°	5720.3	89.2
0°-60°	6387.5	99.6
0°-90°	6410.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6410.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4146	
5°	4186	403
15°	4579	1315
25°	5056	2253
35°	2790	1750
45°	684	578
55°	87	89
65°	16	16
75°	4	6
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4145.7
2.5°	4141.7
5°	4185.5
7.5°	4233.1
10°	4292.8
12.5°	4412.0
15°	4578.9
17.5°	4781.7
20°	4980.4
22.5°	5095.7
25°	5055.9
27.5°	4781.7
30°	4253.0
32.5°	3541.5
35°	2790.3
37.5°	2118.5
40°	1558.1
42.5°	1101.0
45°	683.7
47.5°	381.6
50°	234.5
52.5°	143.1
55°	87.4
57.5°	43.8
60°	23.9
62.5°	19.9
65°	15.9
67.5°	11.9
70°	7.9
72.5°	7.9
75°	4.0
77.5°	4.0
80°	4.0
82.5°	4.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)