

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: P583004

Luminaire Tested: **HC655D010-HM64560827-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560827-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5320.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

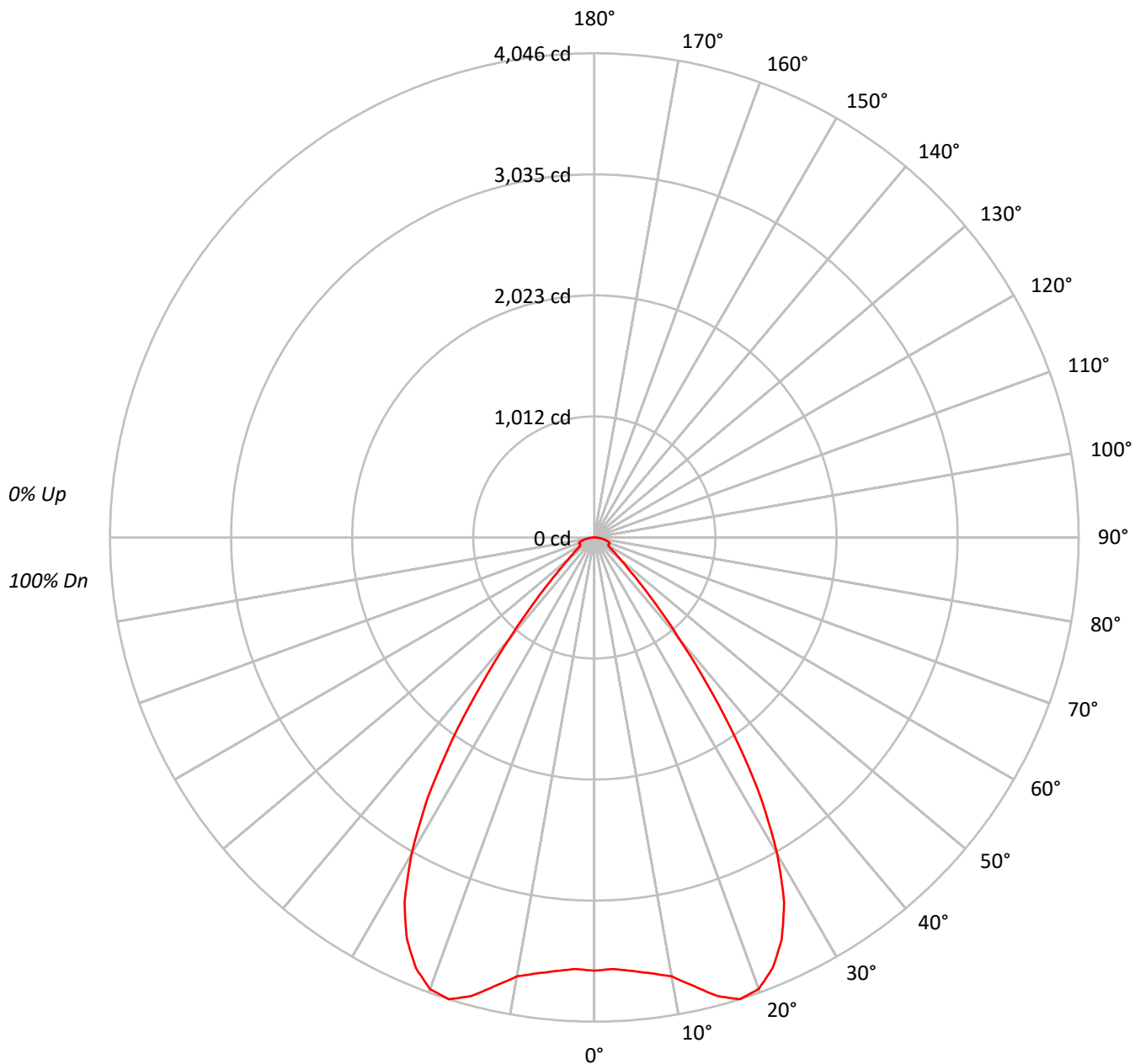
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	103		110	107	104	102		103	100	98		99	97	95		95	94	93
2	106	100	95	91		103	98	94	90		95	91	88		92	89	86		89	86	84
3	99	92	86	81		97	90	85	81		88	83	79		85	81	78		83	80	77
4	93	85	78	73		91	83	78	73		81	76	72		79	75	71		77	73	70
5	88	78	72	67		86	77	71	66		75	70	66		74	69	65		72	68	65
6	83	73	66	61		81	72	66	61		70	65	60		69	64	60		67	63	60
7	78	68	61	56		77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	57	52		73	63	56	52		61	56	52		60	55	51		59	55	51
9	70	59	53	48		69	59	52	48		58	52	48		57	51	48		56	51	48
10	66	56	49	45		65	55	49	45		54	48	45		53	48	44		53	48	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	198422
5°	200110
10°	207322
15°	225200
20°	234246
25°	224051
30°	193359
35°	139227
40°	78433
45°	40648
50°	24238
55°	17462
60°	14834
65°	17109
70°	21686
75°	22918
80°	22414
85°	21260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	6.6
10°-20°	1119.1	21.0
20°-30°	1672.8	31.4
30°-40°	1278.7	24.0
40°-50°	446.6	8.4
50°-60°	170.2	3.2
60°-70°	133.5	2.5
70°-80°	112.9	2.1
80°-90°	36.3	0.7
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°	3141.8	59.1
0°-40°	4420.5	83.1
0°-60°	5037.3	94.7
0°-90°	5320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5320.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3620	
5°	3636	350
15°	3968	1119
25°	3704	1673
35°	2080	1279
45°	524	447
55°	183	170
65°	132	133
75°	108	113
85°	34	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3619.5
2.5°	3609.5
5°	3636.4
7.5°	3673.7
10°	3724.4
12.5°	3839.4
15°	3968.0
17.5°	4045.7
20°	4015.3
22.5°	3893.6
25°	3704.1
27.5°	3433.5
30°	3054.6
32.5°	2601.3
35°	2080.4
37.5°	1542.5
40°	1096.0
42.5°	767.9
45°	524.3
47.5°	368.7
50°	284.2
52.5°	223.2
55°	182.7
57.5°	148.8
60°	135.3
62.5°	131.9
65°	131.9
67.5°	138.6
70°	135.3
72.5°	125.2
75°	108.2
77.5°	91.3
80°	71.0
82.5°	50.8
85°	33.8
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)