

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: P583130

Luminaire Tested: **HC655D010-HM64560940-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583130
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-HM64560940-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5516.0 lumens
Efficiency: N/A
Efficacy: 106.1 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

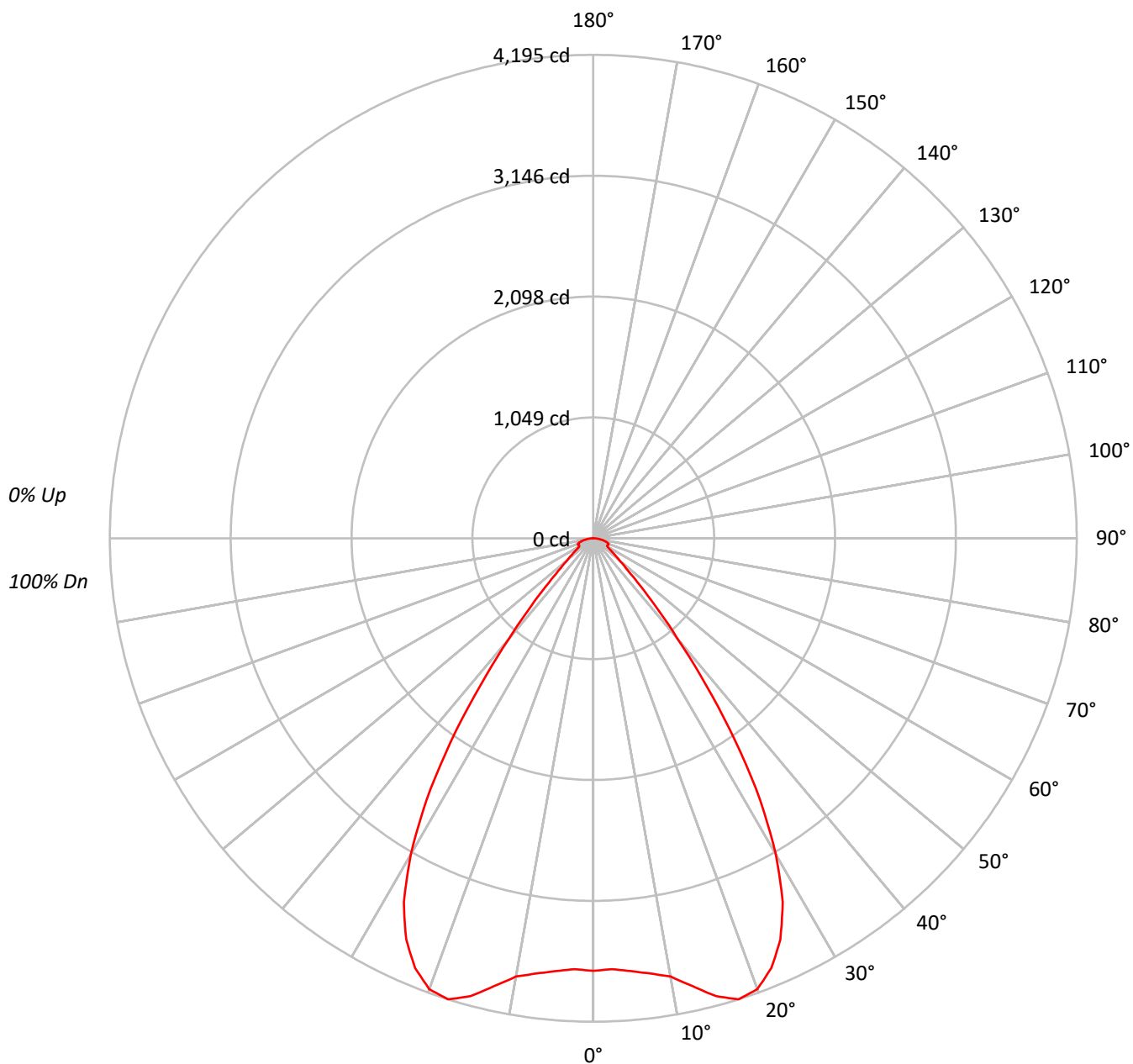
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	205724
5°	207472
10°	214948
15°	233486
20°	242869
25°	232296
30°	200474
35°	144353
40°	81324
45°	42144
50°	25125
55°	18102
60°	15383
65°	17745
70°	22488
75°	23786
80°	23267
85°	22015



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.8	6.6
10°-20°	1160.3	21.0
20°-30°	1734.3	31.4
30°-40°	1325.8	24.0
40°-50°	463.1	8.4
50°-60°	176.5	3.2
60°-70°	138.5	2.5
70°-80°	117.1	2.1
80°-90°	37.7	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°	3257.4	59.1
0°-40°	4583.2	83.1
0°-60°	5222.7	94.7
0°-90°	5516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5516.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3753	
5°	3770	363
15°	4114	1160
25°	3840	1734
35°	2157	1326
45°	544	463
55°	189	176
65°	137	138
75°	112	117
85°	35	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3752.7
2.5°	3742.2
5°	3770.2
7.5°	3808.8
10°	3861.4
12.5°	3980.7
15°	4114.0
17.5°	4194.7
20°	4163.1
22.5°	4036.9
25°	3840.4
27.5°	3559.9
30°	3167.0
32.5°	2697.0
35°	2157.0
37.5°	1599.3
40°	1136.4
42.5°	796.2
45°	543.6
47.5°	382.3
50°	294.6
52.5°	231.5
55°	189.4
57.5°	154.3
60°	140.3
62.5°	136.8
65°	136.8
67.5°	143.9
70°	140.3
72.5°	129.8
75°	112.3
77.5°	94.6
80°	73.7
82.5°	52.6
85°	35.0
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)