

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: P593404

Luminaire Tested: **HC655D010-HM64560950-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593404
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-HM64560950-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4772.5 lumens
Efficiency: N/A
Efficacy: 91.8 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

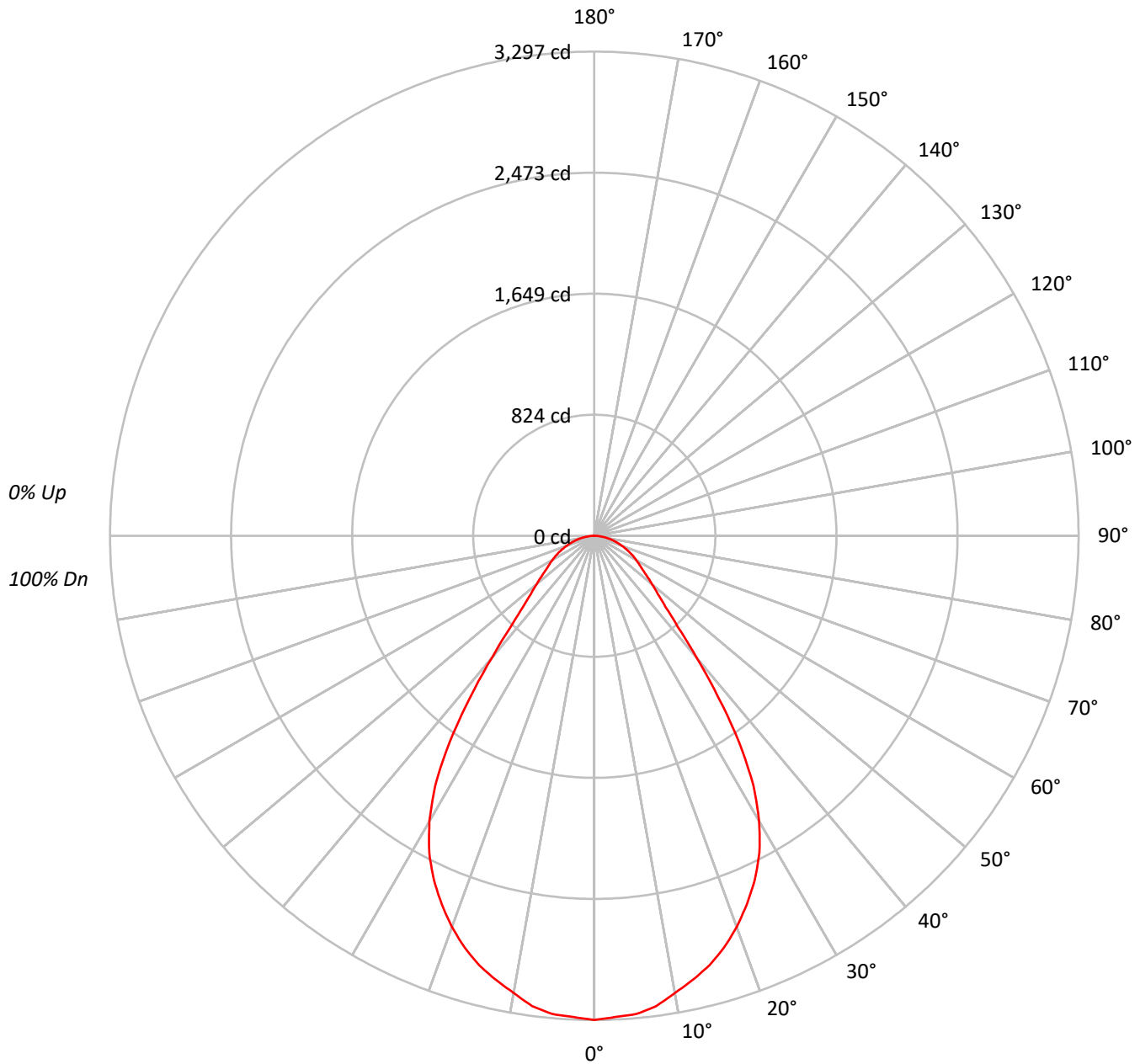
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	83		86	83	81
3	97	88	82	77		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	81	73	68		88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	74	67	61		83	73	66	61		71	65	60		69	64	60		67	63	59
6	79	68	61	55		77	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	56	50		73	62	55	50		61	55	50		60	54	50		58	53	49
8	70	59	51	46		69	58	51	46		57	50	46		56	50	46		54	49	46
9	66	55	48	43		65	54	47	43		53	47	42		52	46	42		51	46	42
10	62	51	44	40		61	51	44	40		50	44	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180764
5°	179908
10°	175932
15°	171811
20°	165349
25°	156378
30°	142110
35°	115027
40°	77567
45°	53308
50°	43674
55°	38221
60°	36148
65°	34128
70°	32041
75°	30479
80°	27687
85°	24279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	6.5
10°-20°	850.1	17.8
20°-30°	1181.1	24.7
30°-40°	1051.6	22.0
40°-50°	558.2	11.7
50°-60°	365.1	7.6
60°-70°	261.6	5.5
70°-80°	151.7	3.2
80°-90°	44.4	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°	2339.9	49.0
0°-40°	3391.5	71.1
0°-60°	4314.7	90.4
0°-90°	4772.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4772.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3297	
5°	3269	309
15°	3027	850
25°	2585	1181
35°	1719	1052
45°	688	558
55°	400	365
65°	263	262
75°	144	152
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3297.4
2.5°	3279.9
5°	3269.3
7.5°	3230.8
10°	3160.5
12.5°	3097.4
15°	3027.3
17.5°	2939.5
20°	2834.3
22.5°	2715.1
25°	2585.3
27.5°	2434.4
30°	2245.0
32.5°	2017.0
35°	1718.8
37.5°	1389.1
40°	1083.9
42.5°	841.8
45°	687.6
47.5°	585.8
50°	512.1
52.5°	452.5
55°	399.9
57.5°	361.3
60°	329.7
62.5°	298.1
65°	263.1
67.5°	231.5
70°	199.9
72.5°	171.9
75°	143.9
77.5°	115.8
80°	87.7
82.5°	63.2
85°	38.6
87.5°	17.5
90°	0.0



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— 0°-180°







(END OF REPORT)