

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: P583032

Luminaire Tested: **HC655D010-HM64560835-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583032
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-HM64560835-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5194.1 lumens
Efficiency: N/A
Efficacy: 99.9 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

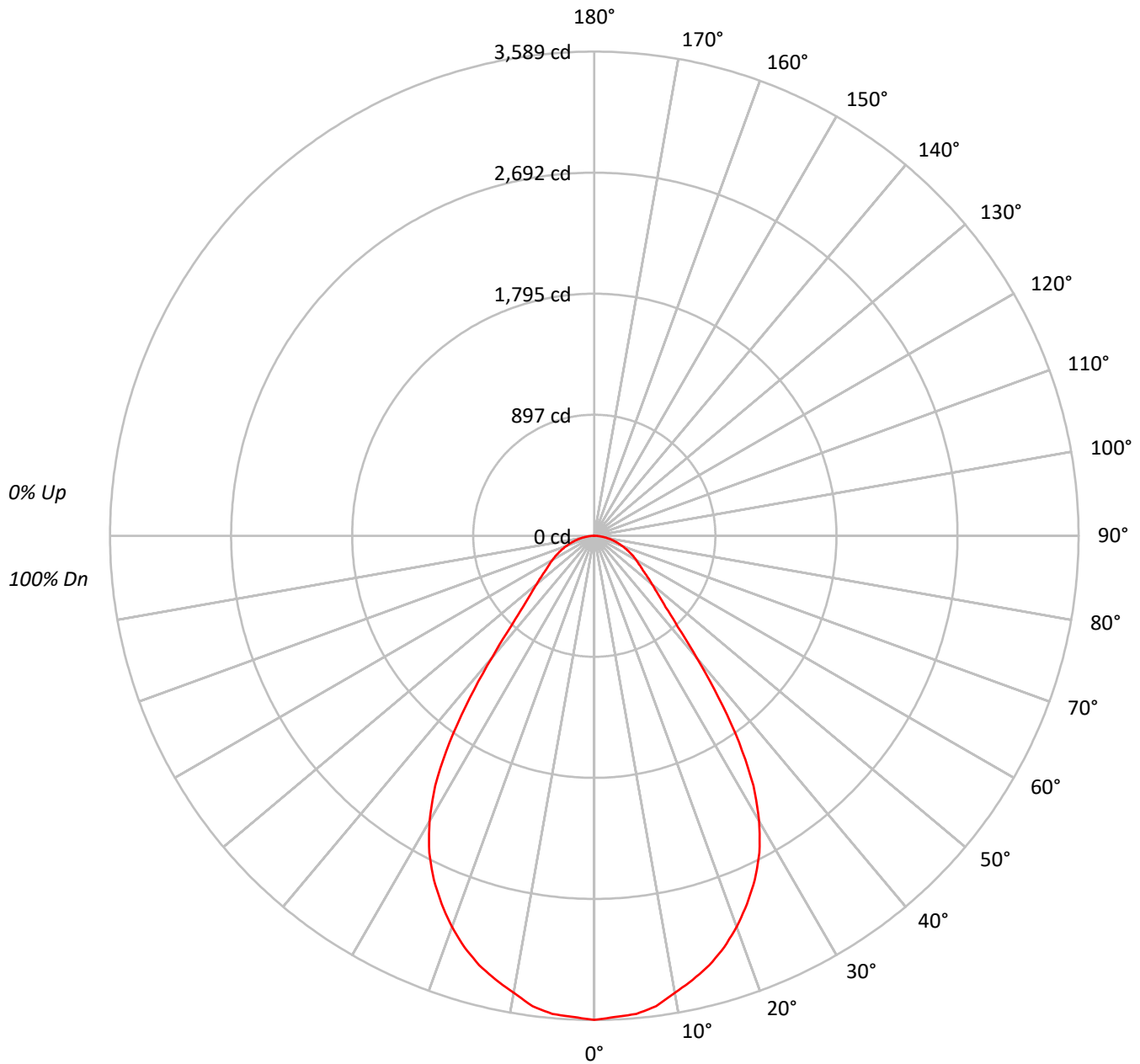
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	51	44	40		61	51	44	40		50	44	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	196728
5°	195801
10°	191479
15°	186993
20°	179962
25°	170187
30°	154669
35°	125193
40°	84422
45°	58006
50°	47538
55°	41595
60°	39350
65°	37138
70°	34878
75°	33148
80°	30149
85°	26418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.9	6.5
10°-20°	925.2	17.8
20°-30°	1285.4	24.7
30°-40°	1144.5	22.0
40°-50°	607.5	11.7
50°-60°	397.3	7.6
60°-70°	284.7	5.5
70°-80°	165.1	3.2
80°-90°	48.3	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°	2546.6	49.0
0°-40°	3691.1	71.1
0°-60°	4696.0	90.4
0°-90°	5194.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5194.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3589	
5°	3558	336
15°	3295	925
25°	2814	1285
35°	1871	1145
45°	748	608
55°	435	397
65°	286	285
75°	156	165
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3588.6
2.5°	3569.6
5°	3558.1
7.5°	3516.1
10°	3439.8
12.5°	3371.1
15°	3294.8
17.5°	3199.3
20°	3084.8
22.5°	2954.9
25°	2813.6
27.5°	2649.6
30°	2443.4
32.5°	2195.2
35°	1870.7
37.5°	1511.9
40°	1179.7
42.5°	916.2
45°	748.2
47.5°	637.5
50°	557.4
52.5°	492.5
55°	435.2
57.5°	393.2
60°	358.9
62.5°	324.5
65°	286.3
67.5°	252.0
70°	217.6
72.5°	187.0
75°	156.5
77.5°	126.0
80°	95.5
82.5°	68.7
85°	42.0
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)