

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: P583086

Luminaire Tested: **HC655D010-HM64560930-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583086
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-HM64560930-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4572.8 lumens
Efficiency: N/A
Efficacy: 87.9 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

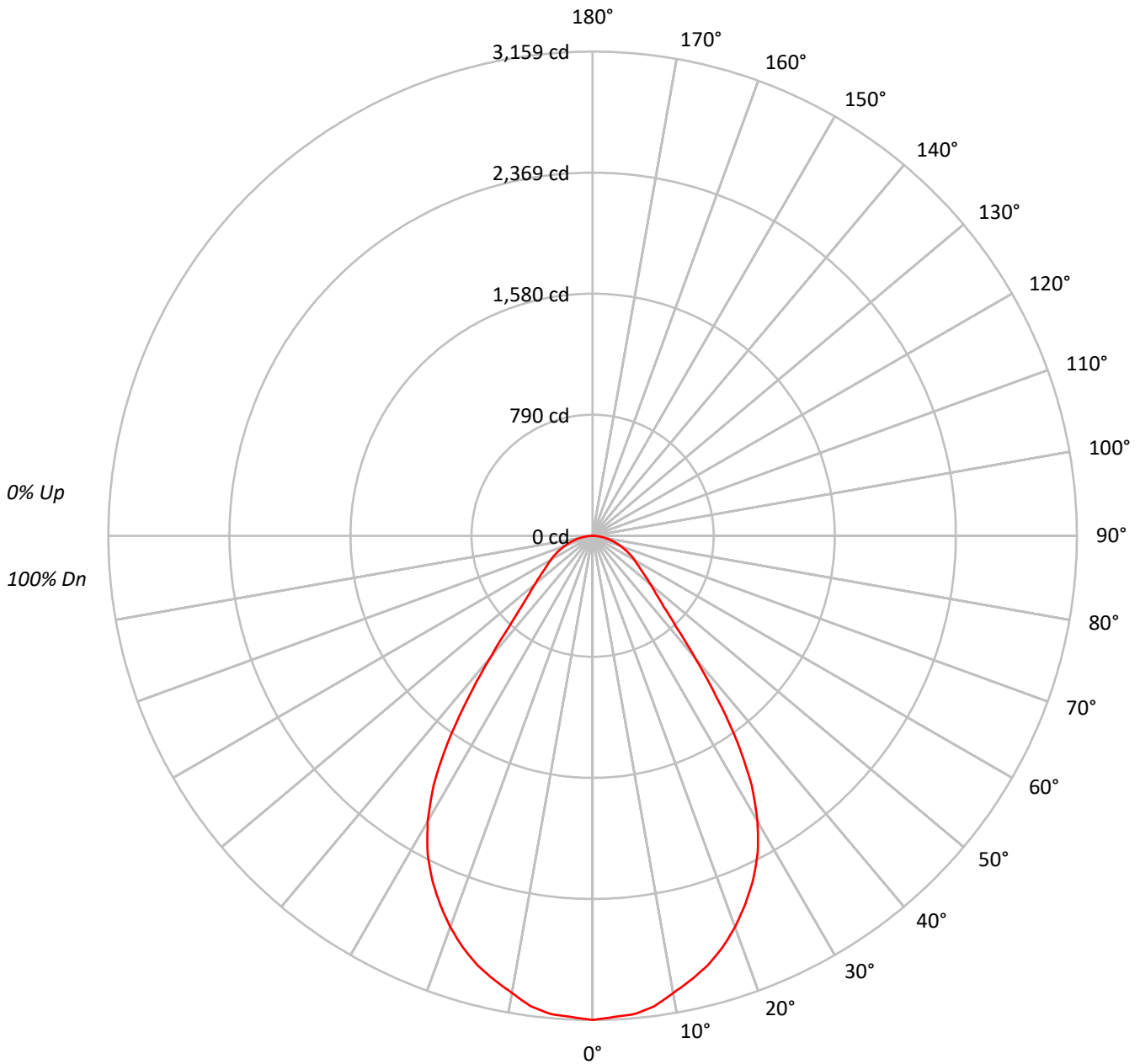
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173193
5°	172380
10°	168567
15°	164621
20°	158430
25°	149833
30°	136160
35°	110216
40°	74325
45°	51075
50°	41849
55°	36625
60°	34646
65°	32701
70°	30694
75°	29187
80°	26519
85°	23273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.7	6.5
10°-20°	814.5	17.8
20°-30°	1131.7	24.7
30°-40°	1007.6	22.0
40°-50°	534.9	11.7
50°-60°	349.8	7.6
60°-70°	250.7	5.5
70°-80°	145.4	3.2
80°-90°	42.5	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°	2241.9	49.0
0°-40°	3249.5	71.1
0°-60°	4134.2	90.4
0°-90°	4572.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3159	
5°	3132	296
15°	2901	815
25°	2477	1132
35°	1647	1008
45°	659	535
55°	383	350
65°	252	251
75°	138	145
85°	37	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3159.3
2.5°	3142.5
5°	3132.5
7.5°	3095.6
10°	3028.2
12.5°	2967.8
15°	2900.6
17.5°	2816.5
20°	2715.7
22.5°	2601.4
25°	2477.1
27.5°	2332.5
30°	2151.0
32.5°	1932.5
35°	1646.9
37.5°	1331.0
40°	1038.6
42.5°	806.7
45°	658.8
47.5°	561.3
50°	490.7
52.5°	433.6
55°	383.2
57.5°	346.1
60°	316.0
62.5°	285.7
65°	252.1
67.5°	221.8
70°	191.5
72.5°	164.7
75°	137.8
77.5°	111.0
80°	84.0
82.5°	60.5
85°	37.0
87.5°	16.8
90°	0.0



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— 0°-180°







(END OF REPORT)