

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: P583050

Luminaire Tested: **HC655D010-HM64560840-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583050
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-HM64560840-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5409.1 lumens
Efficiency: N/A
Efficacy: 104.0 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

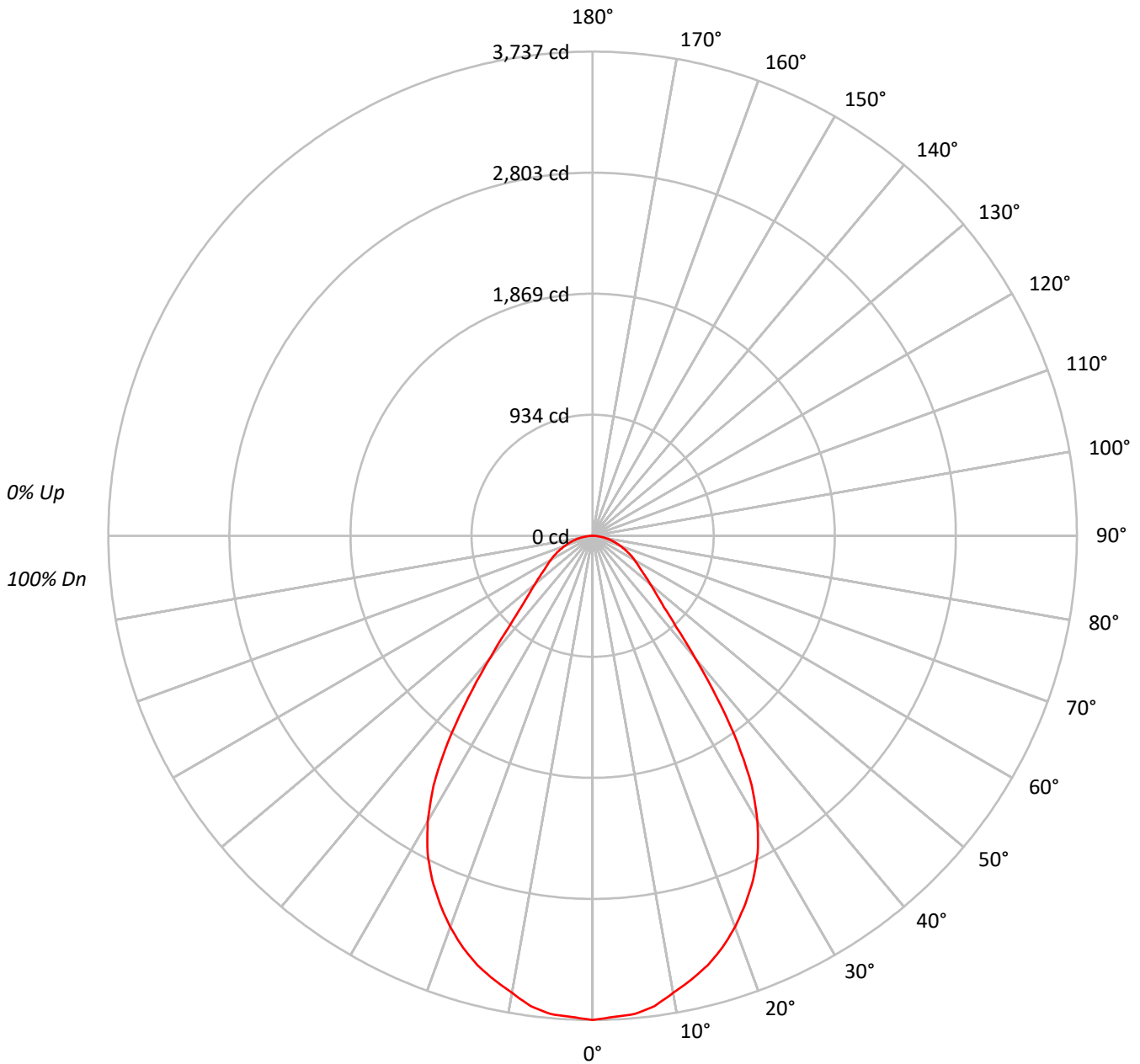
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	204874
5°	203907
10°	199401
15°	194729
20°	187406
25°	177234
30°	161069
35°	130366
40°	87915
45°	60409
50°	49508
55°	43315
60°	40973
65°	38681
70°	36336
75°	34525
80°	31380
85°	27550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.8	6.5
10°-20°	963.5	17.8
20°-30°	1338.6	24.7
30°-40°	1191.8	22.0
40°-50°	632.7	11.7
50°-60°	413.8	7.6
60°-70°	296.5	5.5
70°-80°	172.0	3.2
80°-90°	50.3	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°	2652.0	49.0
0°-40°	3843.8	71.1
0°-60°	4890.3	90.4
0°-90°	5409.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5409.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3737	
5°	3705	350
15°	3431	964
25°	2930	1339
35°	1948	1192
45°	779	633
55°	453	414
65°	298	297
75°	163	172
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3737.2
2.5°	3717.3
5°	3705.4
7.5°	3661.6
10°	3582.1
12.5°	3510.6
15°	3431.1
17.5°	3331.7
20°	3212.4
22.5°	3077.2
25°	2930.1
27.5°	2759.1
30°	2544.5
32.5°	2286.0
35°	1948.0
37.5°	1574.3
40°	1228.5
42.5°	954.2
45°	779.2
47.5°	663.9
50°	580.5
52.5°	512.8
55°	453.2
57.5°	409.6
60°	373.7
62.5°	338.0
65°	298.2
67.5°	262.4
70°	226.7
72.5°	194.8
75°	163.0
77.5°	131.2
80°	99.4
82.5°	71.6
85°	43.8
87.5°	19.9
90°	0.0



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— 0°-180°







(END OF REPORT)