

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: P583128

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560940-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5186.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

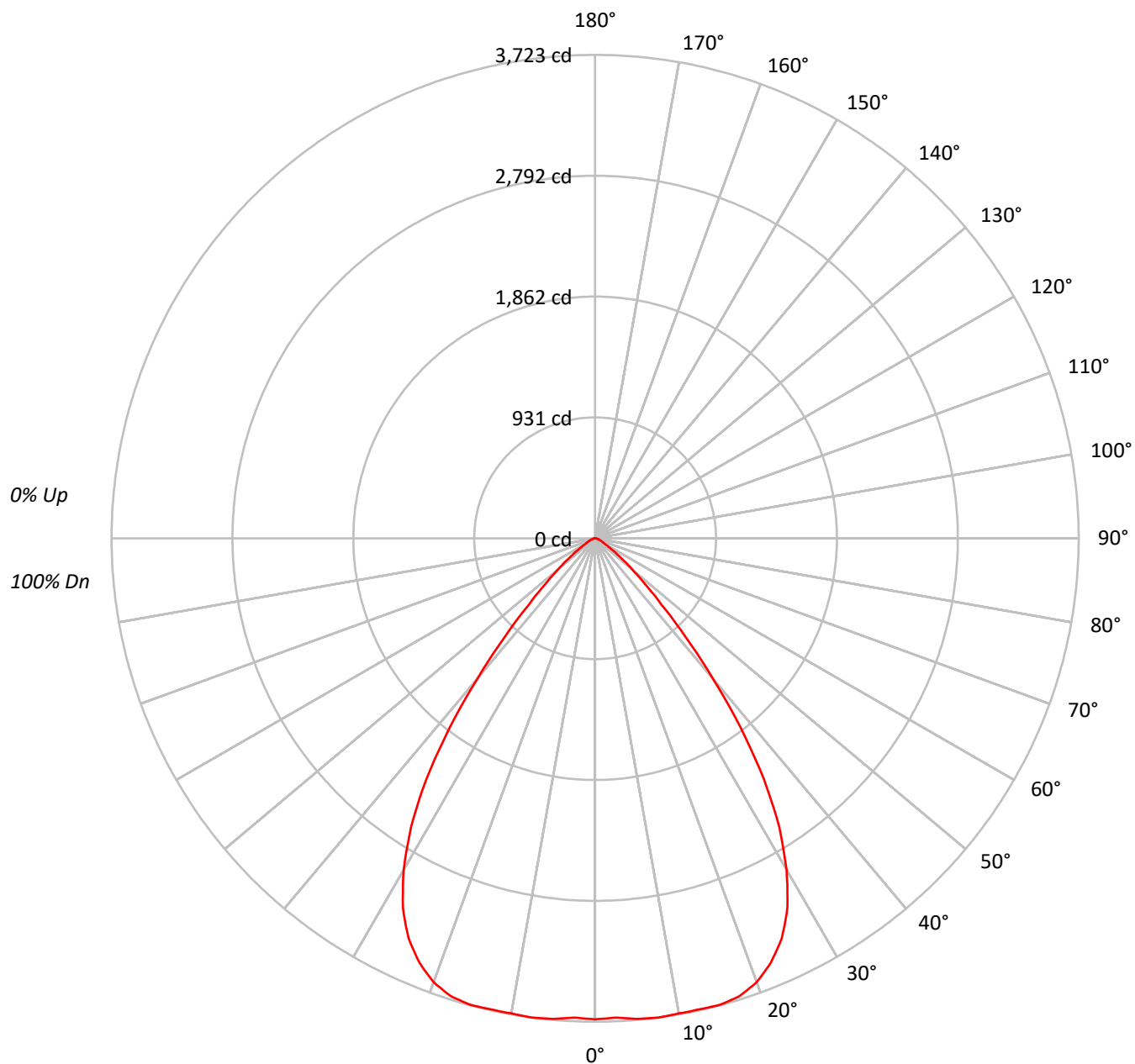
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105		110	108	105	103		103	101	100		100	98	97		96	95	94
2	106	101	96	93		104	99	95	92		96	92	90		93	90	88		90	88	86
3	100	93	87	83		98	91	86	82		89	84	81		86	83	80		84	81	78
4	94	86	79	75		92	85	79	74		82	77	73		80	76	72		78	75	72
5	89	79	73	68		87	78	72	68		76	71	67		75	70	66		73	69	66
6	83	73	67	62		82	73	66	62		71	65	61		70	65	61		68	64	60
7	79	68	62	57		77	68	61	57		66	60	56		65	60	56		64	59	56
8	74	64	57	52		73	63	57	52		62	56	52		61	56	52		60	55	51
9	70	59	53	48		69	59	53	48		58	52	48		57	52	48		56	51	48
10	66	56	49	45		65	55	49	45		54	49	45		53	48	45		53	48	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	203109
5°	204468
10°	206832
15°	211074
20°	212258
25°	205645
30°	186560
35°	151681
40°	100681
45°	56037
50°	31419
55°	17433
60°	9615
65°	7290
70°	5065
75°	3707
80°	2210
85°	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.6	6.8
10°-20°	1048.7	20.2
20°-30°	1545.6	29.8
30°-40°	1382.4	26.7
40°-50°	599.8	11.6
50°-60°	176.2	3.4
60°-70°	56.3	1.1
70°-80°	19.9	0.4
80°-90°	2.9	0.1
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°	2948.9	56.9
0°-40°	4331.3	83.5
0°-60°	5107.3	98.5
0°-90°	5186.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5186.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3705	
5°	3716	355
15°	3719	1049
25°	3400	1546
35°	2266	1382
45°	723	600
55°	182	176
65°	56	56
75°	18	20
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3705.0
2.5°	3694.5
5°	3715.6
7.5°	3722.7
10°	3715.6
12.5°	3715.6
15°	3719.1
17.5°	3698.1
20°	3638.4
22.5°	3536.7
25°	3399.8
27.5°	3206.9
30°	2947.2
32.5°	2638.4
35°	2266.5
37.5°	1842.0
40°	1406.9
42.5°	1028.0
45°	722.8
47.5°	515.8
50°	368.4
52.5°	263.1
55°	182.4
57.5°	122.8
60°	87.7
62.5°	70.2
65°	56.2
67.5°	42.1
70°	31.6
72.5°	24.6
75°	17.5
77.5°	14.1
80°	7.0
82.5°	3.5
85°	3.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)