

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: P583038

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583038
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-HM64560835-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5644.4 lumens
Efficiency: N/A
Efficacy: 108.5 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

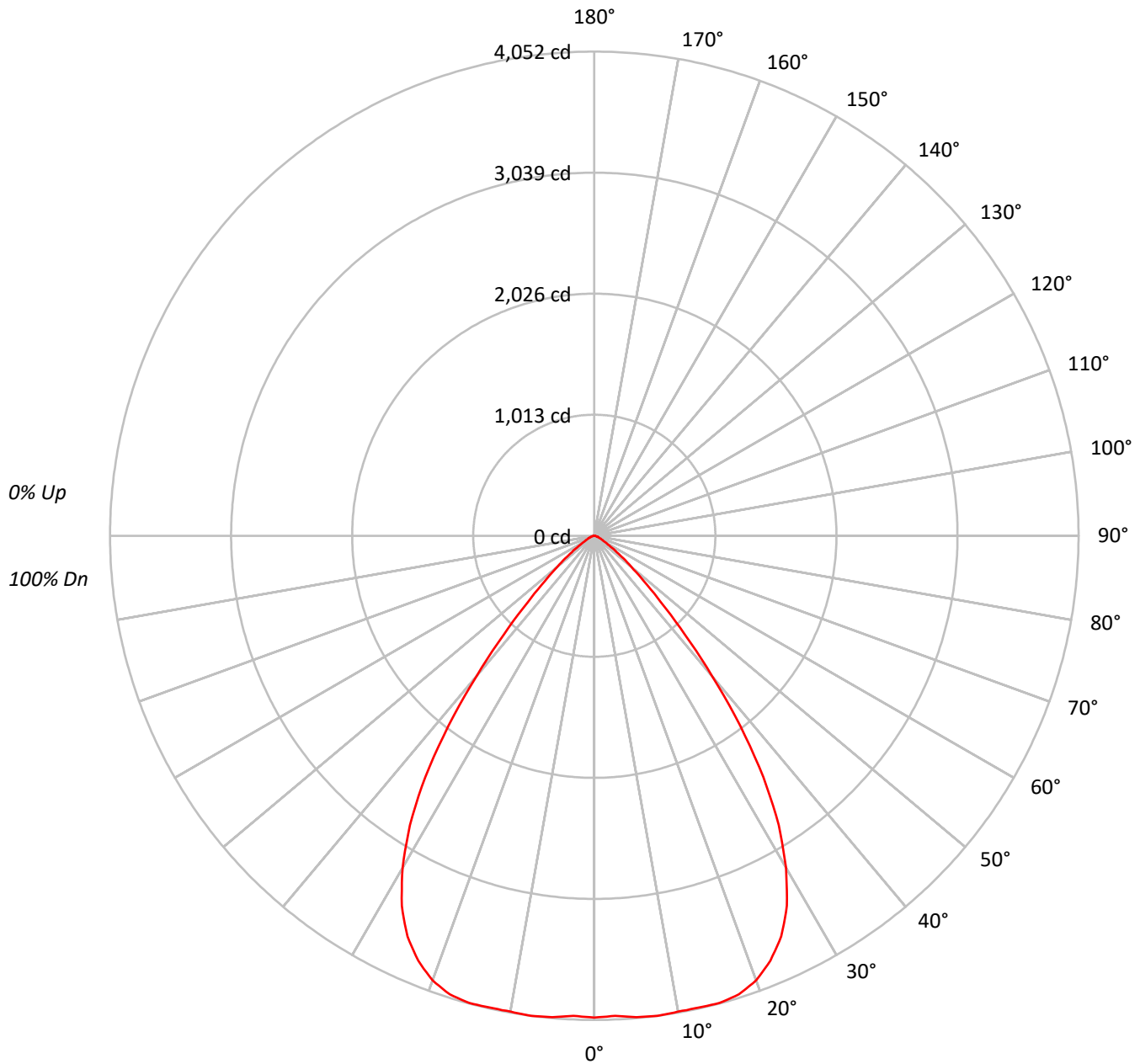
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	110	108	105	103	103	101	100		100	98	97		96
2	106	101	96	93	104	99	95	92	96	92	90		93	90	88		90
3	100	93	87	83	98	91	86	82	89	84	81		86	83	80		84
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73
6	83	73	67	62	82	73	66	62	71	65	61		70	65	61		68
7	79	68	62	57	77	68	61	57	66	60	56		65	60	56		64
8	74	64	57	52	73	63	57	52	62	56	52		61	56	52		60
9	70	59	53	48	69	59	53	48	58	52	48		57	52	48		56
10	66	56	49	45	65	55	49	45	54	49	45		53	48	45		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	221057
5°	222529
10°	225102
15°	229718
20°	231014
25°	223815
30°	203044
35°	165086
40°	109584
45°	60983
50°	34191
55°	18972
60°	10471
65°	7913
70°	5514
75°	4024
80°	2431
85°	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.0	6.8
10°-20°	1141.3	20.2
20°-30°	1682.2	29.8
30°-40°	1504.6	26.7
40°-50°	652.7	11.6
50°-60°	191.8	3.4
60°-70°	61.2	1.1
70°-80°	21.6	0.4
80°-90°	3.1	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°	3209.4	56.9
0°-40°	4714.0	83.5
0°-60°	5558.5	98.5
0°-90°	5644.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5644.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4032	
5°	4044	386
15°	4048	1141
25°	3700	1682
35°	2467	1505
45°	787	653
55°	198	192
65°	61	61
75°	19	22
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4032.4
2.5°	4021.0
5°	4043.8
7.5°	4051.5
10°	4043.8
12.5°	4043.8
15°	4047.6
17.5°	4024.8
20°	3959.9
22.5°	3849.1
25°	3700.2
27.5°	3490.2
30°	3207.6
32.5°	2871.6
35°	2466.8
37.5°	2004.7
40°	1531.3
42.5°	1118.9
45°	786.6
47.5°	561.3
50°	400.9
52.5°	286.4
55°	198.5
57.5°	133.7
60°	95.5
62.5°	76.4
65°	61.0
67.5°	45.8
70°	34.4
72.5°	26.7
75°	19.0
77.5°	15.3
80°	7.7
82.5°	3.8
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)