

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: P582660

Luminaire Tested: **HC645D010-HM64560930-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582660
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: HC645D010-HM64560930-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.8 lumens
Efficiency: N/A
Efficacy: 101.9 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

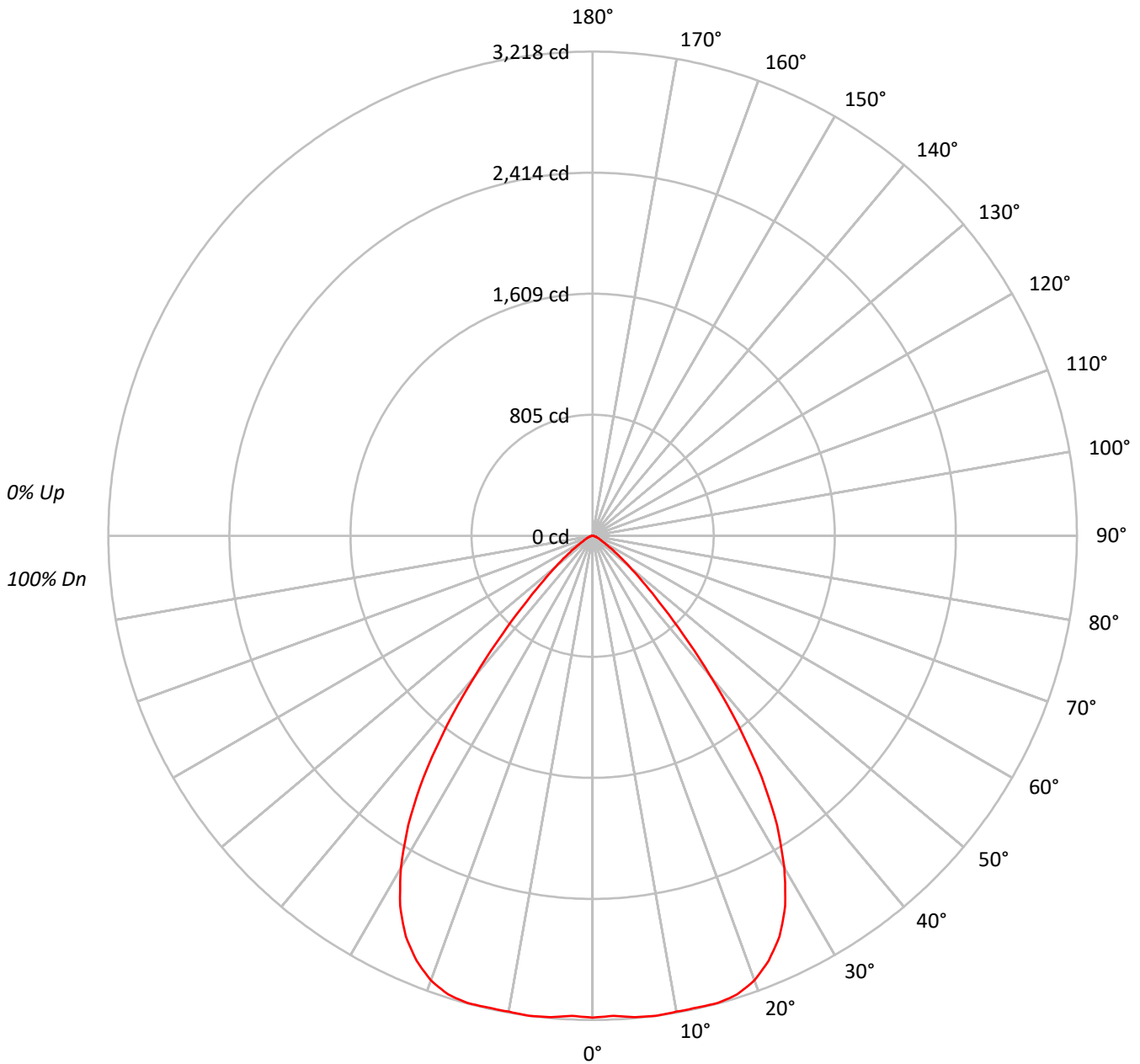
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC645D010-HM64560930-61WDH

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	100	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	175562
5°	176738
10°	178782
15°	182447
20°	183468
25°	177754
30°	161259
35°	131109
40°	87034
45°	48431
50°	27163
55°	15072
60°	8311
65°	6304
70°	4376
75°	3198
80°	1926
85°	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	6.8
10°-20°	906.4	20.2
20°-30°	1336.0	29.8
30°-40°	1194.9	26.7
40°-50°	518.4	11.6
50°-60°	152.3	3.4
60°-70°	48.6	1.1
70°-80°	17.1	0.4
80°-90°	2.5	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°	2548.9	56.9
0°-40°	3743.9	83.5
0°-60°	4414.6	98.5
0°-90°	4482.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3202	
5°	3212	307
15°	3215	906
25°	2939	1336
35°	1959	1195
45°	625	518
55°	158	152
65°	49	49
75°	15	17
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3202.5
2.5°	3193.5
5°	3211.7
7.5°	3217.8
10°	3211.7
12.5°	3211.7
15°	3214.7
17.5°	3196.5
20°	3144.9
22.5°	3057.0
25°	2938.7
27.5°	2771.9
30°	2547.5
32.5°	2280.5
35°	1959.1
37.5°	1592.2
40°	1216.2
42.5°	888.5
45°	624.7
47.5°	445.9
50°	318.5
52.5°	227.4
55°	157.7
57.5°	106.2
60°	75.8
62.5°	60.6
65°	48.6
67.5°	36.4
70°	27.3
72.5°	21.2
75°	15.1
77.5°	12.1
80°	6.1
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)