

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: P582694

Luminaire Tested: **HC645D010-HM64560940-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560940-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4175.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

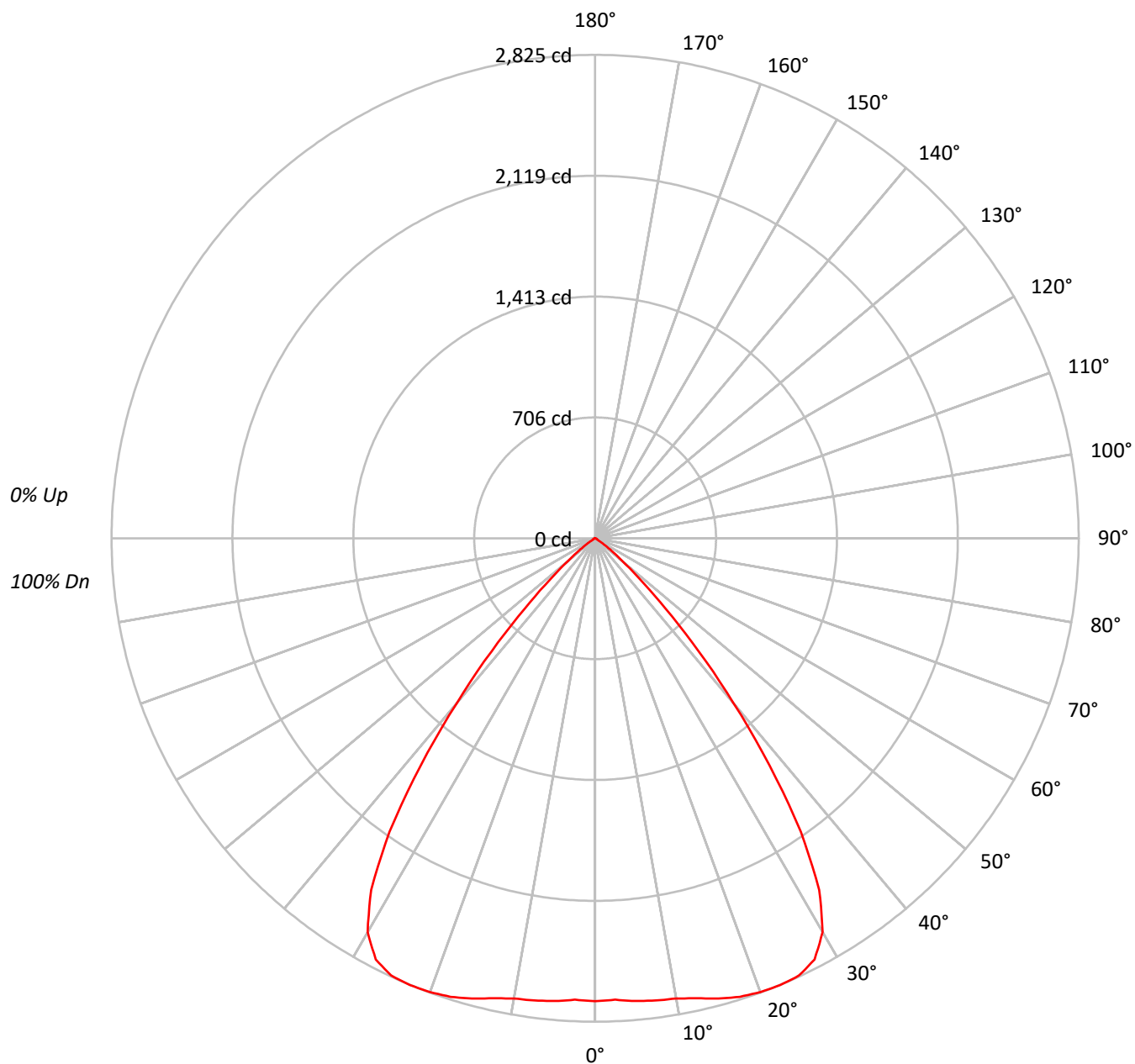
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		104	102	100		100	98	97		97	95	94
2	107	101	97	93		104	100	95	92		96	93	90		93	91	88		90	88	86
3	100	93	88	83		98	92	87	83		89	85	81		87	83	80		84	81	79
4	95	86	80	75		93	85	79	75		83	78	74		81	77	73		79	75	72
5	89	80	73	68		87	79	73	68		77	72	67		75	70	67		73	69	66
6	84	74	67	62		82	73	67	62		71	66	62		70	65	61		69	64	61
7	79	68	62	57		77	68	61	57		66	61	57		65	60	56		64	59	56
8	74	64	57	52		73	63	57	52		62	56	52		61	56	52		60	55	52
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	48	45		53	48	44		53	48	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	148300
5°	149389
10°	151996
15°	158015
20°	164643
25°	170520
30°	168235
35°	140170
40°	89883
45°	44888
50°	17808
55°	6040
60°	1732
65°	1232
70°	1010
75°	1334
80°	1010
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	6.2
10°-20°	789.7	18.9
20°-30°	1289.4	30.9
30°-40°	1264.0	30.3
40°-50°	484.6	11.6
50°-60°	71.1	1.7
60°-70°	10.6	0.3
70°-80°	5.4	0.1
80°-90°	1.3	0.0
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°	2338.7	56.0
0°-40°	3602.7	86.3
0°-60°	4158.4	99.6
0°-90°	4175.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2705	
5°	2715	260
15°	2784	790
25°	2819	1289
35°	2094	1264
45°	579	485
55°	63	71
65°	10	11
75°	6	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2705.2
2.5°	2698.8
5°	2714.7
7.5°	2724.2
10°	2730.5
12.5°	2752.6
15°	2784.2
17.5°	2809.6
20°	2822.2
22.5°	2825.4
25°	2819.1
27.5°	2774.7
30°	2657.7
32.5°	2436.2
35°	2094.5
37.5°	1673.8
40°	1256.0
42.5°	895.4
45°	579.0
47.5°	354.4
50°	208.8
52.5°	120.2
55°	63.2
57.5°	28.5
60°	15.8
62.5°	12.7
65°	9.5
67.5°	9.5
70°	6.3
72.5°	6.3
75°	6.3
77.5°	3.2
80°	3.2
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)