

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: P582608

Luminaire Tested: **HC645D010-HM64560835-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560835-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5415.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

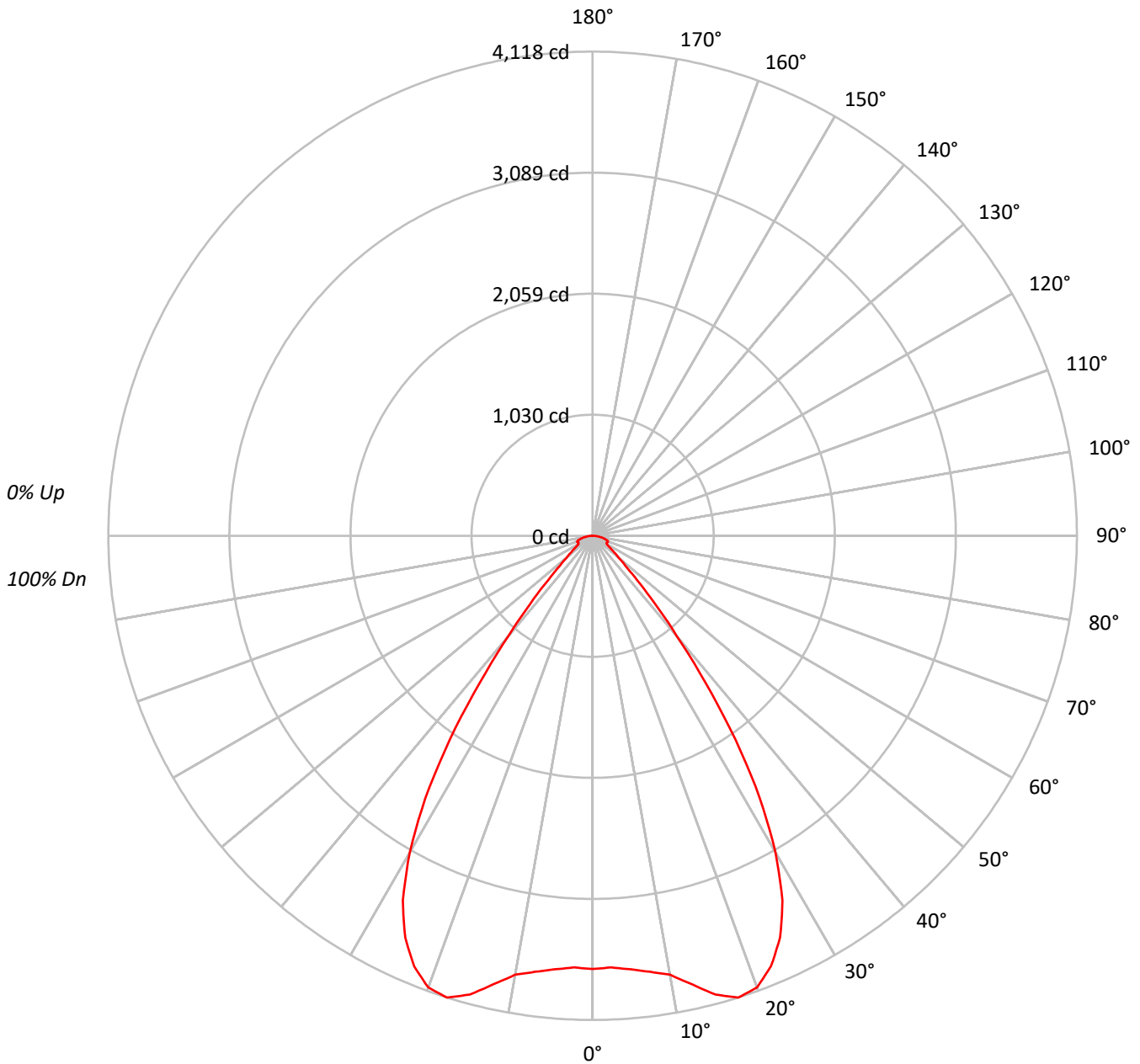
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69				69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63				63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58				58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54				54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50				50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46				46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	201985
5°	203708
10°	211046
15°	229241
20°	238452
25°	228074
30°	196834
35°	141723
40°	79835
45°	41376
50°	24673
55°	17768
60°	15097
65°	17421
70°	22071
75°	23320
80°	22825
85°	21700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.2	6.6
10°-20°	1139.2	21.0
20°-30°	1702.8	31.4
30°-40°	1301.6	24.0
40°-50°	454.7	8.4
50°-60°	173.3	3.2
60°-70°	135.9	2.5
70°-80°	114.9	2.1
80°-90°	37.0	0.7
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°	3198.2	59.1
0°-40°	4499.9	83.1
0°-60°	5127.8	94.7
0°-90°	5415.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5415.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3684	
5°	3702	356
15°	4039	1139
25°	3771	1703
35°	2118	1302
45°	534	455
55°	186	173
65°	134	136
75°	110	115
85°	34	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3684.5
2.5°	3674.2
5°	3701.8
7.5°	3739.6
10°	3791.3
12.5°	3908.3
15°	4039.2
17.5°	4118.4
20°	4087.4
22.5°	3963.4
25°	3770.6
27.5°	3495.2
30°	3109.5
32.5°	2648.0
35°	2117.7
37.5°	1570.2
40°	1115.6
42.5°	781.7
45°	533.7
47.5°	375.4
50°	289.3
52.5°	227.3
55°	185.9
57.5°	151.6
60°	137.7
62.5°	134.3
65°	134.3
67.5°	141.2
70°	137.7
72.5°	127.4
75°	110.1
77.5°	93.0
80°	72.3
82.5°	51.6
85°	34.5
87.5°	13.7
90°	0.0



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— 0°-180°







(END OF REPORT)