

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: P582669

Luminaire Tested: **HC645D010-HM64560935-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560935-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

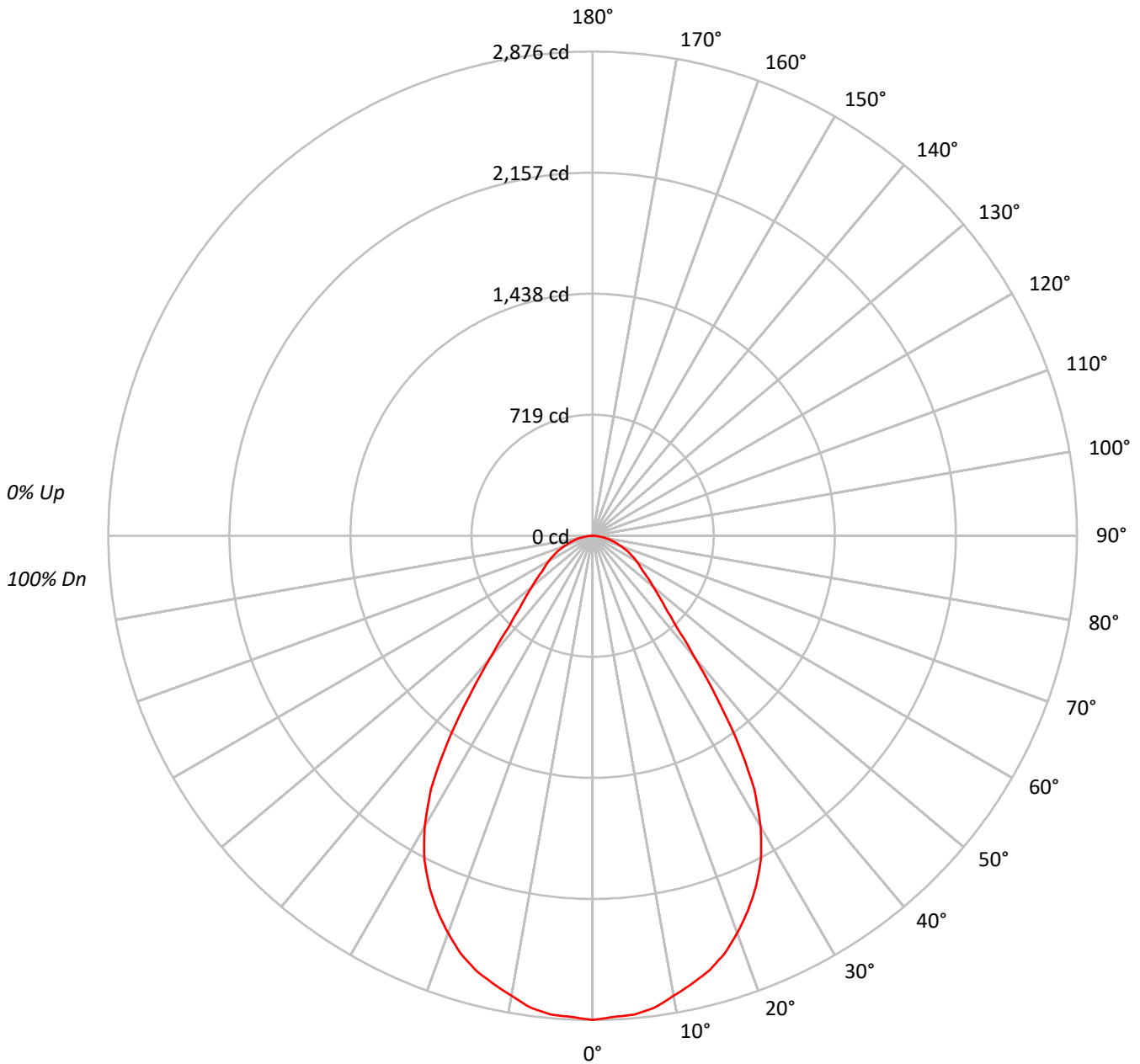
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582669

CATALOG NUMBER: HC645D010-HM64560935-61MDW

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	157652
5°	157076
10°	154450
15°	151732
20°	146482
25°	138903
30°	126342
35°	100947
40°	67355
45°	48013
50°	40007
55°	34866
60°	32936
65°	31028
70°	28498
75°	26624
80°	24182
85°	21260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	6.4
10°-20°	750.7	17.7
20°-30°	1049.0	24.8
30°-40°	924.0	21.8
40°-50°	499.2	11.8
50°-60°	333.8	7.9
60°-70°	236.6	5.6
70°-80°	133.0	3.1
80°-90°	38.8	0.9
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°	2069.6	48.9
0°-40°	2993.6	70.7
0°-60°	3826.6	90.4
0°-90°	4235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2876	
5°	2854	270
15°	2674	751
25°	2296	1049
35°	1508	924
45°	619	499
55°	365	334
65°	239	237
75°	126	133
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2875.8
2.5°	2860.5
5°	2854.4
7.5°	2826.7
10°	2774.6
12.5°	2725.6
15°	2673.5
17.5°	2602.9
20°	2510.9
22.5°	2409.8
25°	2296.4
27.5°	2164.5
30°	1995.9
32.5°	1787.4
35°	1508.4
37.5°	1204.9
40°	941.2
42.5°	741.9
45°	619.3
47.5°	536.5
50°	469.1
52.5°	414.0
55°	364.8
57.5°	331.1
60°	300.4
62.5°	269.8
65°	239.2
67.5°	208.4
70°	177.8
72.5°	150.3
75°	125.7
77.5°	101.2
80°	76.6
82.5°	55.1
85°	33.8
87.5°	15.4
90°	0.0



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— 0°-180°







(END OF REPORT)