

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: P593331

Luminaire Tested: **HC645D010-HM64560950-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593331
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-HM64560950-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4368.6 lumens
Efficiency: N/A
Efficacy: 99.3 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

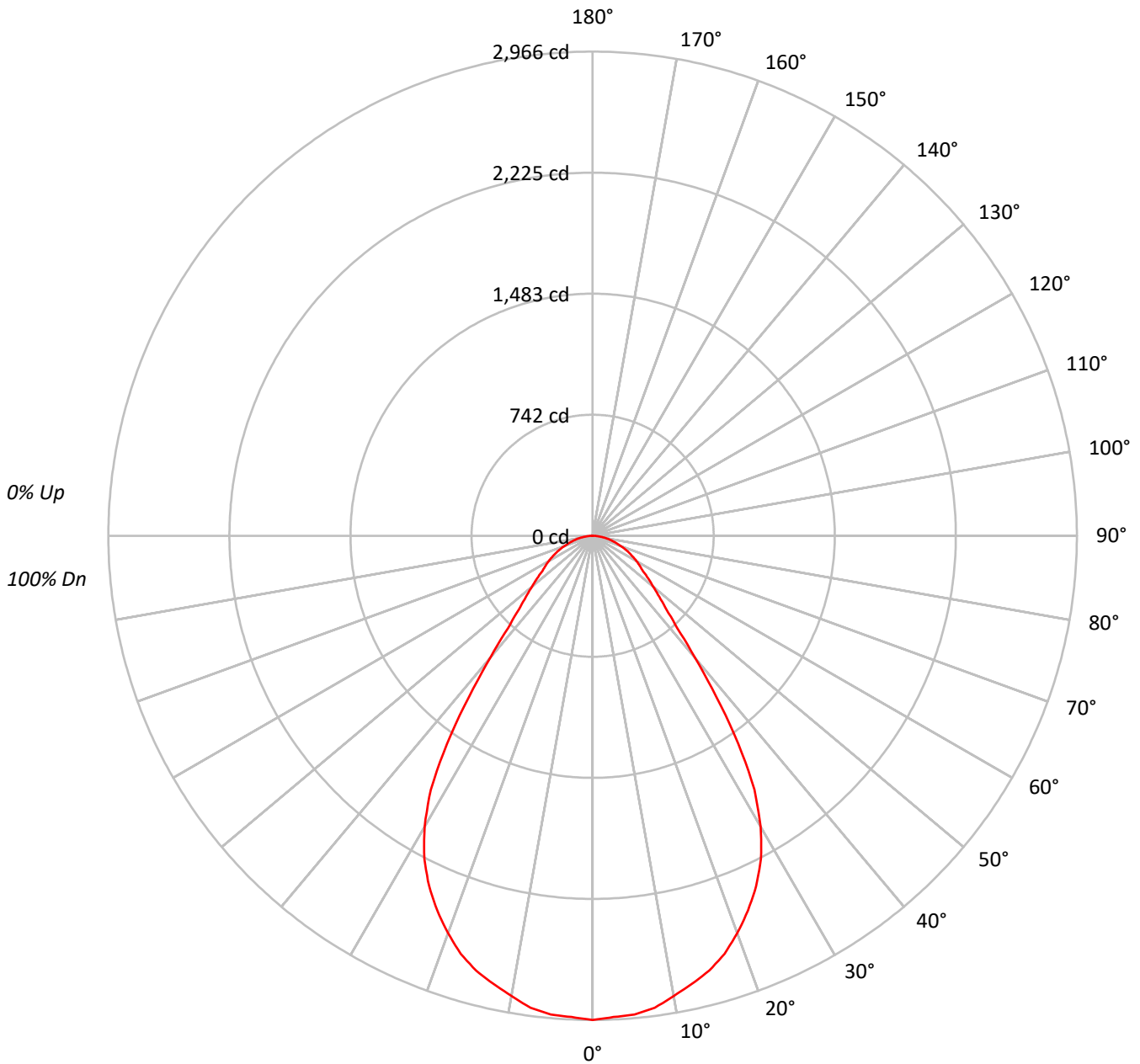
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	162624
5°	162035
10°	159327
15°	156516
20°	151108
25°	143282
30°	130324
35°	104132
40°	69480
45°	49525
50°	41269
55°	35965
60°	33978
65°	32001
70°	29412
75°	27450
80°	24972
85°	21889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	6.4
10°-20°	774.4	17.7
20°-30°	1082.1	24.8
30°-40°	953.2	21.8
40°-50°	515.0	11.8
50°-60°	344.3	7.9
60°-70°	244.1	5.6
70°-80°	137.2	3.1
80°-90°	40.0	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°	2134.9	48.9
0°-40°	3088.1	70.7
0°-60°	3947.3	90.4
0°-90°	4368.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2966	
5°	2944	278
15°	2758	774
25°	2369	1082
35°	1556	953
45°	639	515
55°	376	344
65°	247	244
75°	130	137
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2966.5
2.5°	2950.7
5°	2944.5
7.5°	2916.0
10°	2862.2
12.5°	2811.6
15°	2757.8
17.5°	2685.1
20°	2590.2
22.5°	2485.8
25°	2368.8
27.5°	2232.8
30°	2058.8
32.5°	1843.8
35°	1556.0
37.5°	1242.9
40°	970.9
42.5°	765.4
45°	638.8
47.5°	553.4
50°	483.9
52.5°	427.0
55°	376.3
57.5°	341.6
60°	309.9
62.5°	278.4
65°	246.7
67.5°	215.0
70°	183.5
72.5°	155.0
75°	129.6
77.5°	104.4
80°	79.1
82.5°	56.9
85°	34.8
87.5°	15.8
90°	0.0



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— 0°-180°







(END OF REPORT)