

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: P593326

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593326
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-HM64560950-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4678.7 lumens
Efficiency: N/A
Efficacy: 106.3 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

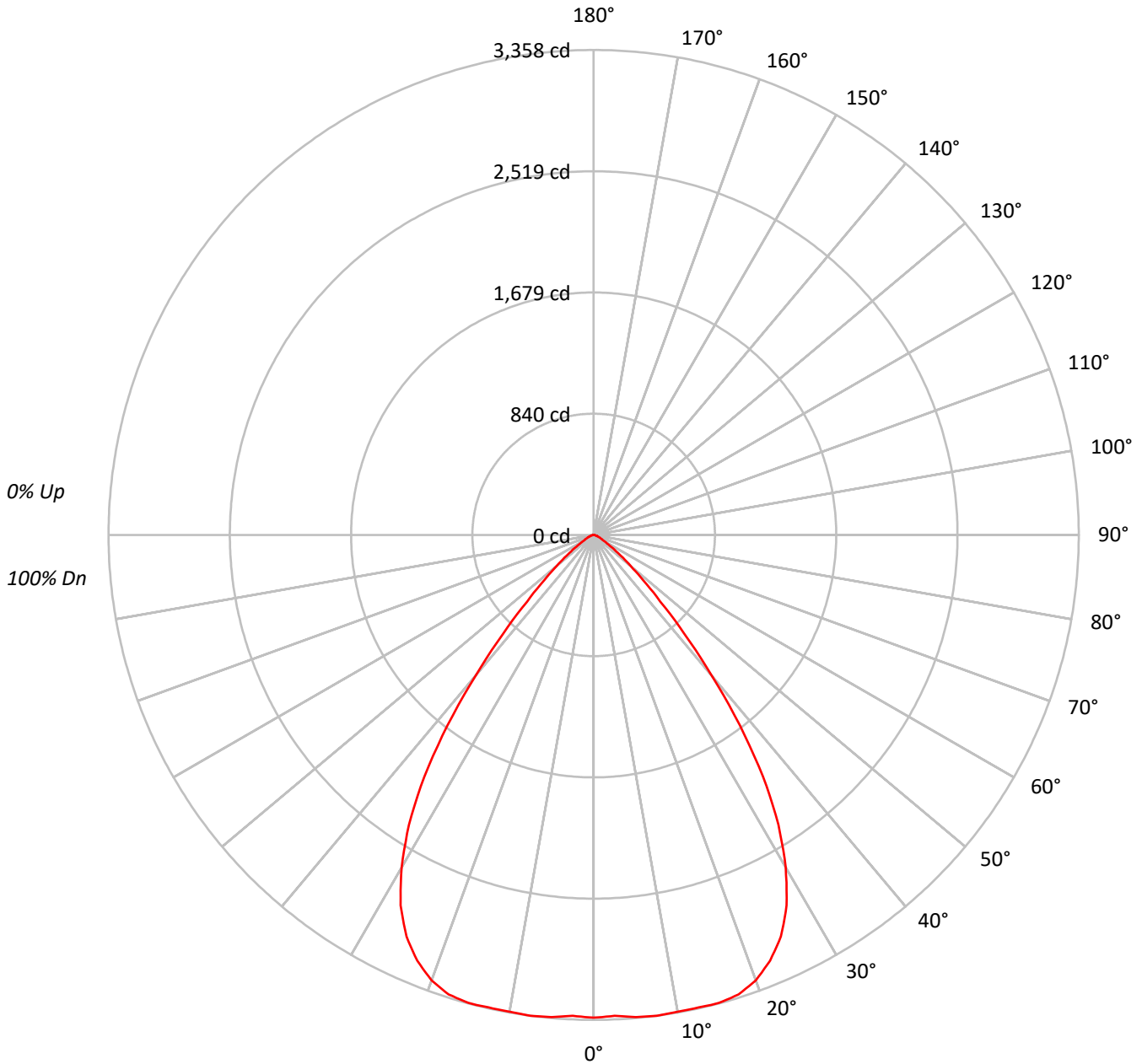
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	183236
5°	184459
10°	186592
15°	190415
20°	191484
25°	185515
30°	168298
35°	136838
40°	90827
45°	50556
50°	28340
55°	15732
60°	8684
65°	6577
70°	4568
75°	3347
80°	1989
85°	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	6.8
10°-20°	946.0	20.2
20°-30°	1394.3	29.8
30°-40°	1247.1	26.7
40°-50°	541.1	11.6
50°-60°	159.0	3.4
60°-70°	50.8	1.1
70°-80°	17.9	0.4
80°-90°	2.6	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°	2660.3	56.9
0°-40°	3907.4	83.5
0°-60°	4607.4	98.5
0°-90°	4678.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4678.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3342	
5°	3352	320
15°	3355	946
25°	3067	1394
35°	2045	1247
45°	652	541
55°	165	159
65°	51	51
75°	16	18
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3342.5
2.5°	3333.0
5°	3352.0
7.5°	3358.3
10°	3352.0
12.5°	3352.0
15°	3355.1
17.5°	3336.1
20°	3282.3
22.5°	3190.6
25°	3067.0
27.5°	2893.0
30°	2658.7
32.5°	2380.3
35°	2044.7
37.5°	1661.7
40°	1269.2
42.5°	927.4
45°	652.1
47.5°	465.3
50°	332.3
52.5°	237.4
55°	164.6
57.5°	110.7
60°	79.2
62.5°	63.3
65°	50.7
67.5°	38.0
70°	28.5
72.5°	22.2
75°	15.8
77.5°	12.7
80°	6.3
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)