

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: P582588

Luminaire Tested: **HC645D010-HM64560830-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582588
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-HM64560830-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4873.4 lumens
Efficiency: N/A
Efficacy: 110.8 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

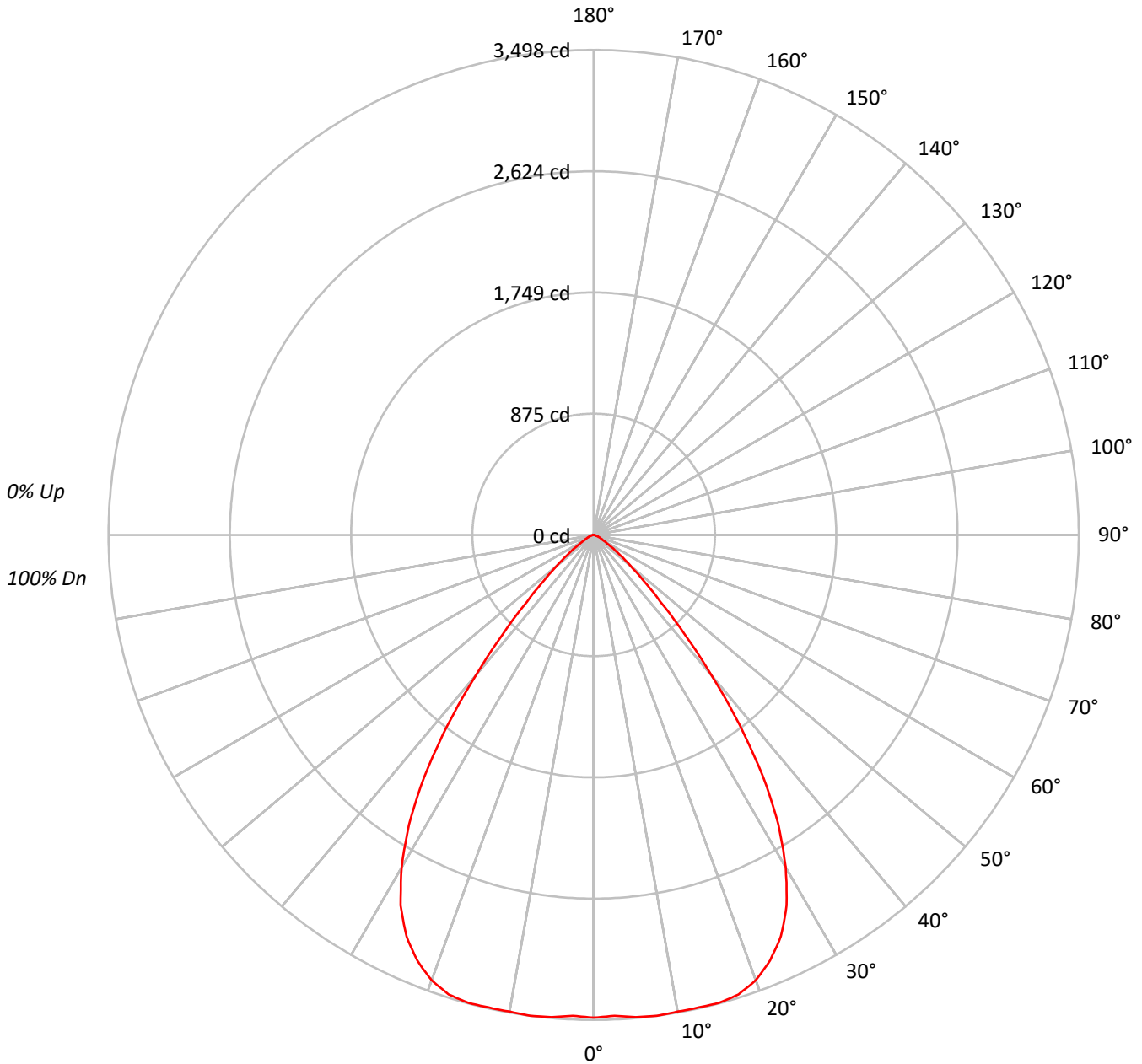
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	190856
5°	192130
10°	194352
15°	198338
20°	199447
25°	193239
30°	175299
35°	142533
40°	94613
45°	52657
50°	29526
55°	16391
60°	9045
65°	6849
70°	4760
75°	3495
80°	2084
85°	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	6.8
10°-20°	985.4	20.2
20°-30°	1452.3	29.8
30°-40°	1299.0	26.7
40°-50°	563.6	11.6
50°-60°	165.6	3.4
60°-70°	52.8	1.1
70°-80°	18.7	0.4
80°-90°	2.7	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°	2770.9	56.9
0°-40°	4070.0	83.5
0°-60°	4799.2	98.5
0°-90°	4873.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4873.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3482	
5°	3491	333
15°	3495	985
25°	3195	1452
35°	2130	1299
45°	679	564
55°	172	166
65°	53	53
75°	16	19
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3481.5
2.5°	3471.6
5°	3491.4
7.5°	3498.0
10°	3491.4
12.5°	3491.4
15°	3494.7
17.5°	3474.9
20°	3418.8
22.5°	3323.2
25°	3194.7
27.5°	3013.3
30°	2769.3
32.5°	2479.3
35°	2129.8
37.5°	1730.9
40°	1322.1
42.5°	966.0
45°	679.2
47.5°	484.7
50°	346.2
52.5°	247.3
55°	171.5
57.5°	115.4
60°	82.5
62.5°	65.9
65°	52.8
67.5°	39.5
70°	29.7
72.5°	23.1
75°	16.5
77.5°	13.1
80°	6.6
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)