

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: P582606

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582606
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-HM64560835-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5092.0 lumens
Efficiency: N/A
Efficacy: 115.7 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

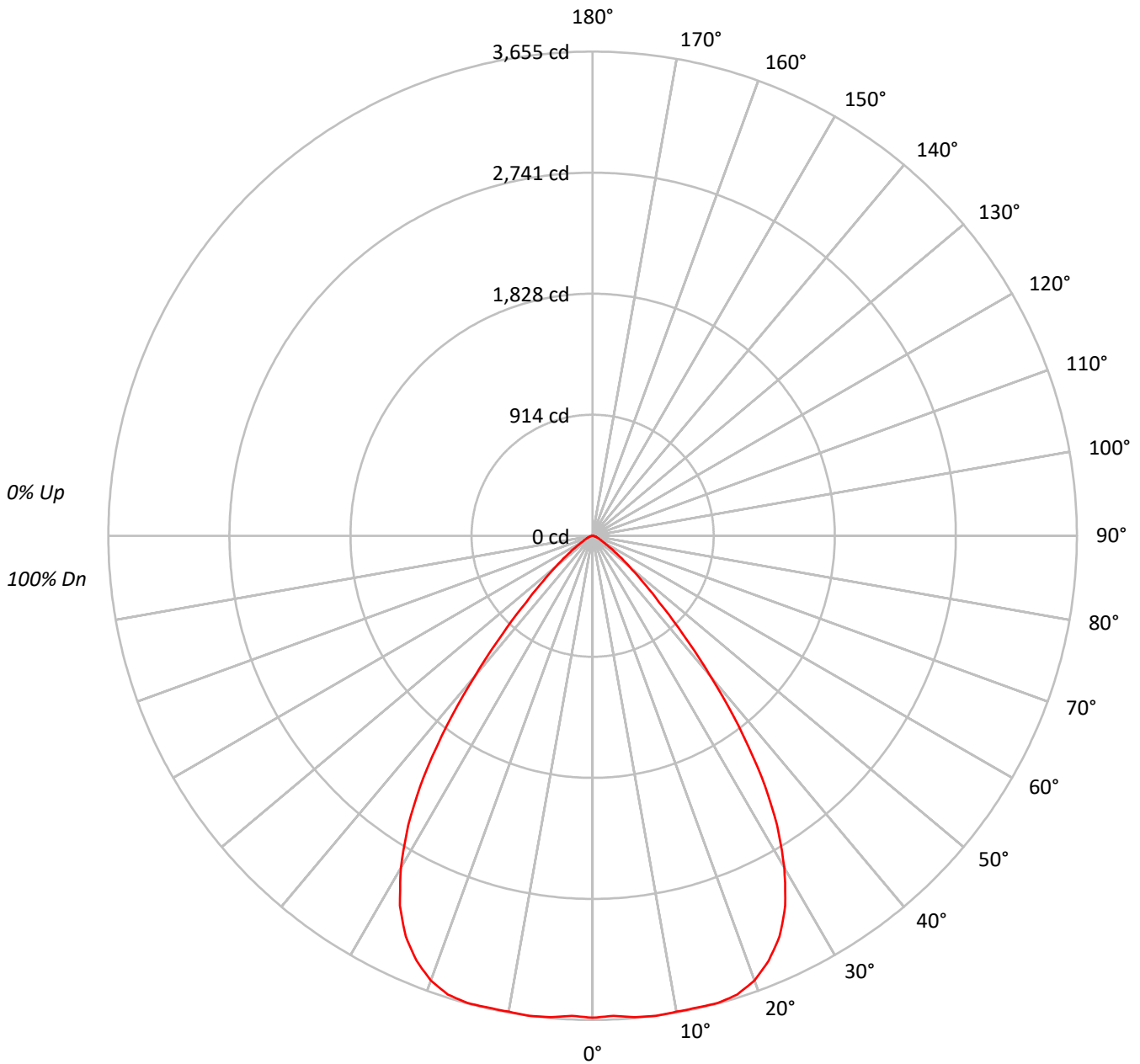
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	199419
5°	200748
10°	203069
15°	207237
20°	208402
25°	201907
30°	183174
35°	148931
40°	98849
45°	55021
50°	30856
55°	17118
60°	9440
65°	7147
70°	4969
75°	3643
80°	2178
85°	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	6.8
10°-20°	1029.6	20.2
20°-30°	1517.5	29.8
30°-40°	1357.3	26.7
40°-50°	588.9	11.6
50°-60°	173.0	3.4
60°-70°	55.2	1.1
70°-80°	19.5	0.4
80°-90°	2.8	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°	2895.3	56.9
0°-40°	4252.6	83.5
0°-60°	5014.5	98.5
0°-90°	5092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5092.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3638	
5°	3648	348
15°	3652	1030
25°	3338	1518
35°	2225	1357
45°	710	589
55°	179	173
65°	55	55
75°	17	19
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3637.7
2.5°	3627.4
5°	3648.0
7.5°	3655.0
10°	3648.0
12.5°	3648.0
15°	3651.5
17.5°	3630.9
20°	3572.3
22.5°	3472.4
25°	3338.0
27.5°	3148.6
30°	2893.7
32.5°	2590.5
35°	2225.4
37.5°	1808.5
40°	1381.3
42.5°	1009.4
45°	709.7
47.5°	506.4
50°	361.8
52.5°	258.4
55°	179.1
57.5°	120.6
60°	86.1
62.5°	68.9
65°	55.1
67.5°	41.3
70°	31.0
72.5°	24.2
75°	17.2
77.5°	13.7
80°	6.9
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)