

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: P582570

Luminaire Tested: **HC645D010-HM64560827-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582570
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-HM64560827-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4512.5 lumens
Efficiency: N/A
Efficacy: 102.6 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

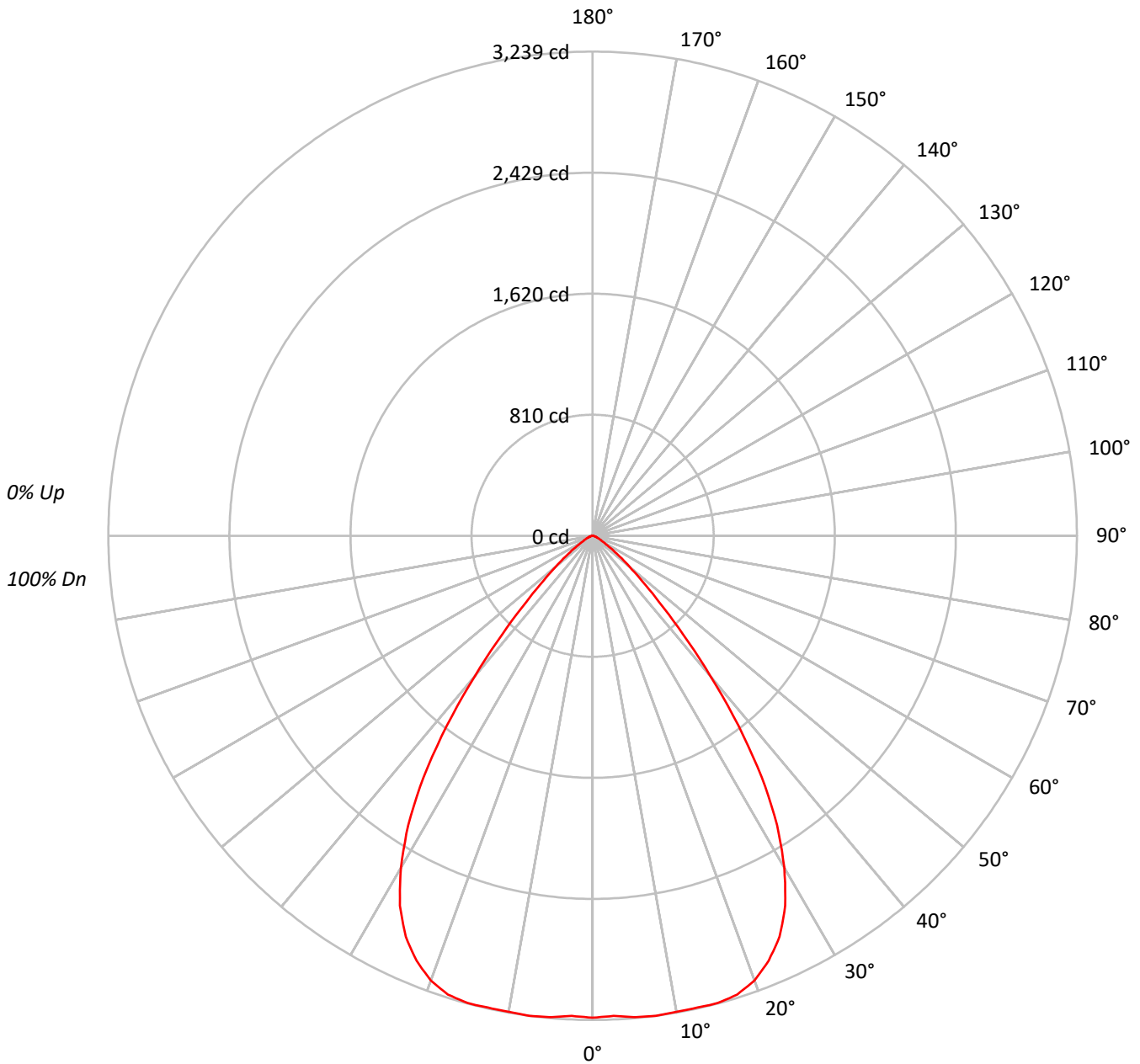
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	176735
5°	177911
10°	179968
15°	183662
20°	184688
25°	178934
30°	162329
35°	131986
40°	87600
45°	48749
50°	27342
55°	15168
60°	8377
65°	6330
70°	4392
75°	3219
80°	1926
85°	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	6.8
10°-20°	912.4	20.2
20°-30°	1344.8	29.8
30°-40°	1202.9	26.7
40°-50°	521.8	11.6
50°-60°	153.4	3.4
60°-70°	48.9	1.1
70°-80°	17.2	0.4
80°-90°	2.5	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°	2565.9	56.9
0°-40°	3768.7	83.5
0°-60°	4443.9	98.5
0°-90°	4512.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4512.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3224	
5°	3233	309
15°	3236	912
25°	2958	1345
35°	1972	1203
45°	629	522
55°	159	153
65°	49	49
75°	15	17
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3223.9
2.5°	3214.6
5°	3233.0
7.5°	3239.1
10°	3233.0
12.5°	3233.0
15°	3236.1
17.5°	3217.7
20°	3165.8
22.5°	3077.2
25°	2958.2
27.5°	2790.3
30°	2564.4
32.5°	2295.8
35°	1972.2
37.5°	1602.8
40°	1224.1
42.5°	894.5
45°	628.8
47.5°	448.8
50°	320.6
52.5°	229.0
55°	158.7
57.5°	106.9
60°	76.4
62.5°	61.1
65°	48.8
67.5°	36.6
70°	27.4
72.5°	21.3
75°	15.2
77.5°	12.2
80°	6.1
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)