

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: P593438

Luminaire Tested: **HC660D010-HM64560950-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560950-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5897.1 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

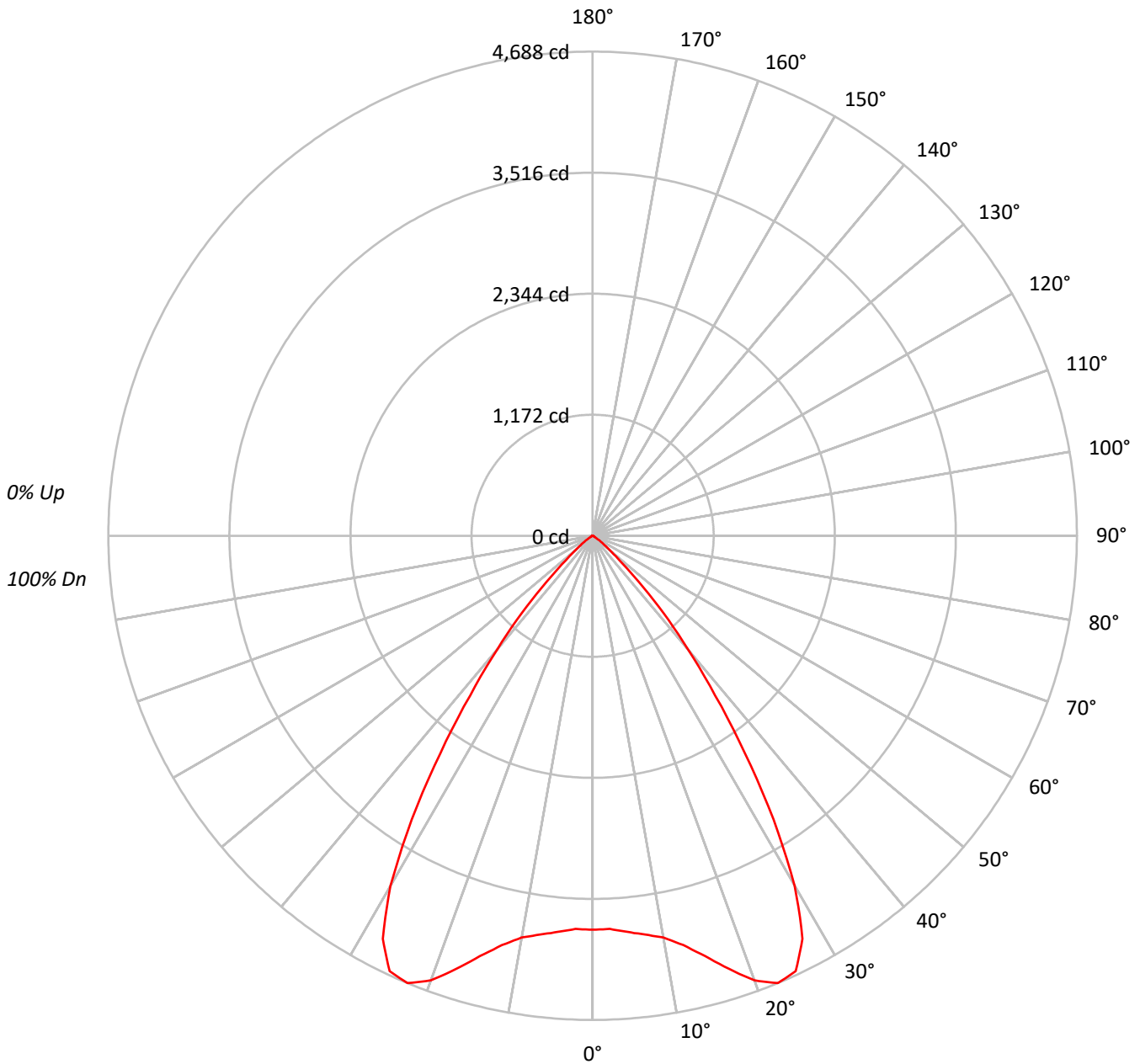
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	209062
5°	211875
10°	219819
15°	239059
20°	267277
25°	281327
30°	247658
35°	171778
40°	102571
45°	48757
50°	18396
55°	7684
60°	2412
65°	1894
70°	1170
75°	784
80°	1168
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	6.3
10°-20°	1209.5	20.5
20°-30°	2072.5	35.1
30°-40°	1609.6	27.3
40°-50°	532.1	9.0
50°-60°	81.6	1.4
60°-70°	14.4	0.2
70°-80°	5.3	0.1
80°-90°	1.5	0.0
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°	3652.6	61.9
0°-40°	5262.2	89.2
0°-60°	5875.9	99.6
0°-90°	5897.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5897.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3814	
5°	3850	371
15°	4212	1210
25°	4651	2073
35°	2567	1610
45°	629	532
55°	80	82
65°	15	14
75°	4	5
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3813.6
2.5°	3810.0
5°	3850.2
7.5°	3894.1
10°	3948.9
12.5°	4058.6
15°	4212.2
17.5°	4398.7
20°	4581.5
22.5°	4687.5
25°	4651.0
27.5°	4398.7
30°	3912.4
32.5°	3257.9
35°	2566.8
37.5°	1948.8
40°	1433.3
42.5°	1012.8
45°	628.9
47.5°	351.0
50°	215.7
52.5°	131.6
55°	80.4
57.5°	40.3
60°	22.0
62.5°	18.3
65°	14.6
67.5°	11.0
70°	7.3
72.5°	7.3
75°	3.7
77.5°	3.7
80°	3.7
82.5°	3.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)