

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: P593312

Luminaire Tested: **HC645D010-HM64560850-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593312
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: HC645D010-HM64560850-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5783.2 lumens
Efficiency: N/A
Efficacy: 131.4 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

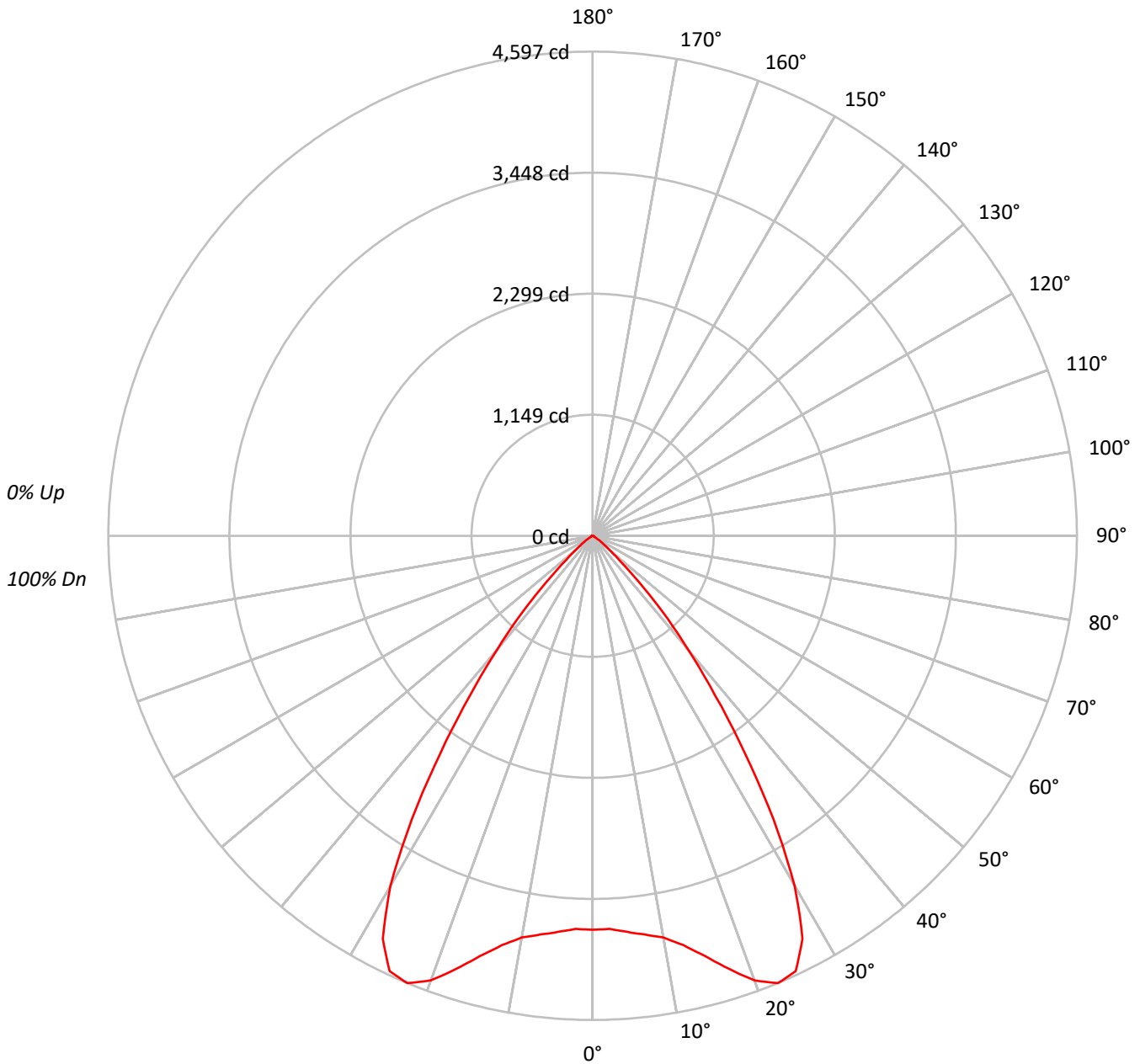
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	205027
5°	207781
10°	215577
15°	234439
20°	262109
25°	275889
30°	242873
35°	168465
40°	100588
45°	47819
50°	18046
55°	7541
60°	2357
65°	1855
70°	1154
75°	763
80°	1137
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	6.3
10°-20°	1186.1	20.5
20°-30°	2032.5	35.1
30°-40°	1578.5	27.3
40°-50°	521.9	9.0
50°-60°	80.0	1.4
60°-70°	14.1	0.2
70°-80°	5.2	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°	3582.0	61.9
0°-40°	5160.5	89.2
0°-60°	5762.4	99.6
0°-90°	5783.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5783.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3740	
5°	3776	363
15°	4131	1186
25°	4561	2032
35°	2517	1578
45°	617	522
55°	79	80
65°	14	14
75°	4	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3740.0
2.5°	3736.4
5°	3775.8
7.5°	3818.8
10°	3872.7
12.5°	3980.2
15°	4130.8
17.5°	4313.7
20°	4492.9
22.5°	4597.0
25°	4561.1
27.5°	4313.7
30°	3836.8
32.5°	3194.9
35°	2517.3
37.5°	1911.2
40°	1405.6
42.5°	993.3
45°	616.8
47.5°	344.3
50°	211.6
52.5°	129.0
55°	78.9
57.5°	39.4
60°	21.5
62.5°	17.9
65°	14.3
67.5°	10.8
70°	7.2
72.5°	7.2
75°	3.6
77.5°	3.6
80°	3.6
82.5°	3.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)