

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: P582652

Luminaire Tested: **HC645D010-HM64560930-61NDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560930-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4616.3 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

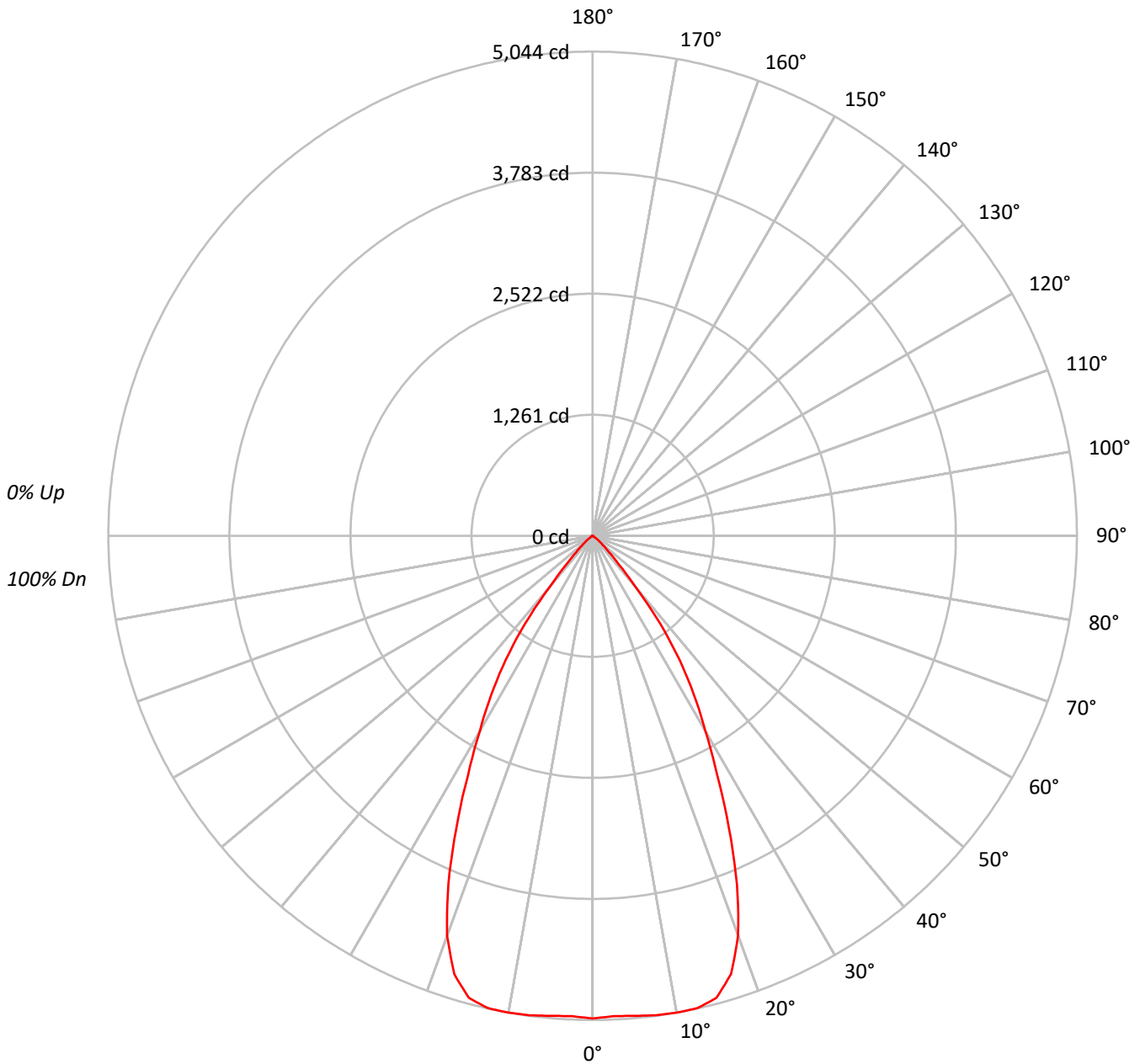
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			94
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87			87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82			82
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76			76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71			71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			67
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55			55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	275685
5°	276232
10°	280779
15°	282828
20°	258538
25°	203159
30°	148713
35°	105491
40°	49893
45°	19033
50°	8537
55°	2322
60°	998
65°	791
70°	481
75°	635
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.2	10.4
10°-20°	1377.4	29.8
20°-30°	1532.1	33.2
30°-40°	957.1	20.7
40°-50°	227.4	4.9
50°-60°	32.5	0.7
60°-70°	6.7	0.1
70°-80°	2.8	0.1
80°-90°	0.0	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°	3389.7	73.4
0°-40°	4346.8	94.2
0°-60°	4606.7	99.8
0°-90°	4616.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4616.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5029	
5°	5020	480
15°	4983	1377
25°	3359	1532
35°	1576	957
45°	246	227
55°	24	33
65°	6	7
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5028.9
2.5°	5007.7
5°	5019.7
7.5°	5037.9
10°	5044.0
12.5°	5041.0
15°	4983.4
17.5°	4789.4
20°	4431.7
22.5°	3928.5
25°	3358.7
27.5°	2813.0
30°	2349.3
32.5°	1964.3
35°	1576.3
37.5°	1158.0
40°	697.2
42.5°	403.2
45°	245.5
47.5°	157.7
50°	100.1
52.5°	57.6
55°	24.3
57.5°	12.1
60°	9.1
62.5°	9.1
65°	6.1
67.5°	6.1
70°	3.0
72.5°	3.0
75°	3.0
77.5°	3.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)