

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: P582634

Luminaire Tested: **HC645D010-HM64560927-61NDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582634
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-HM64560927-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3864.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

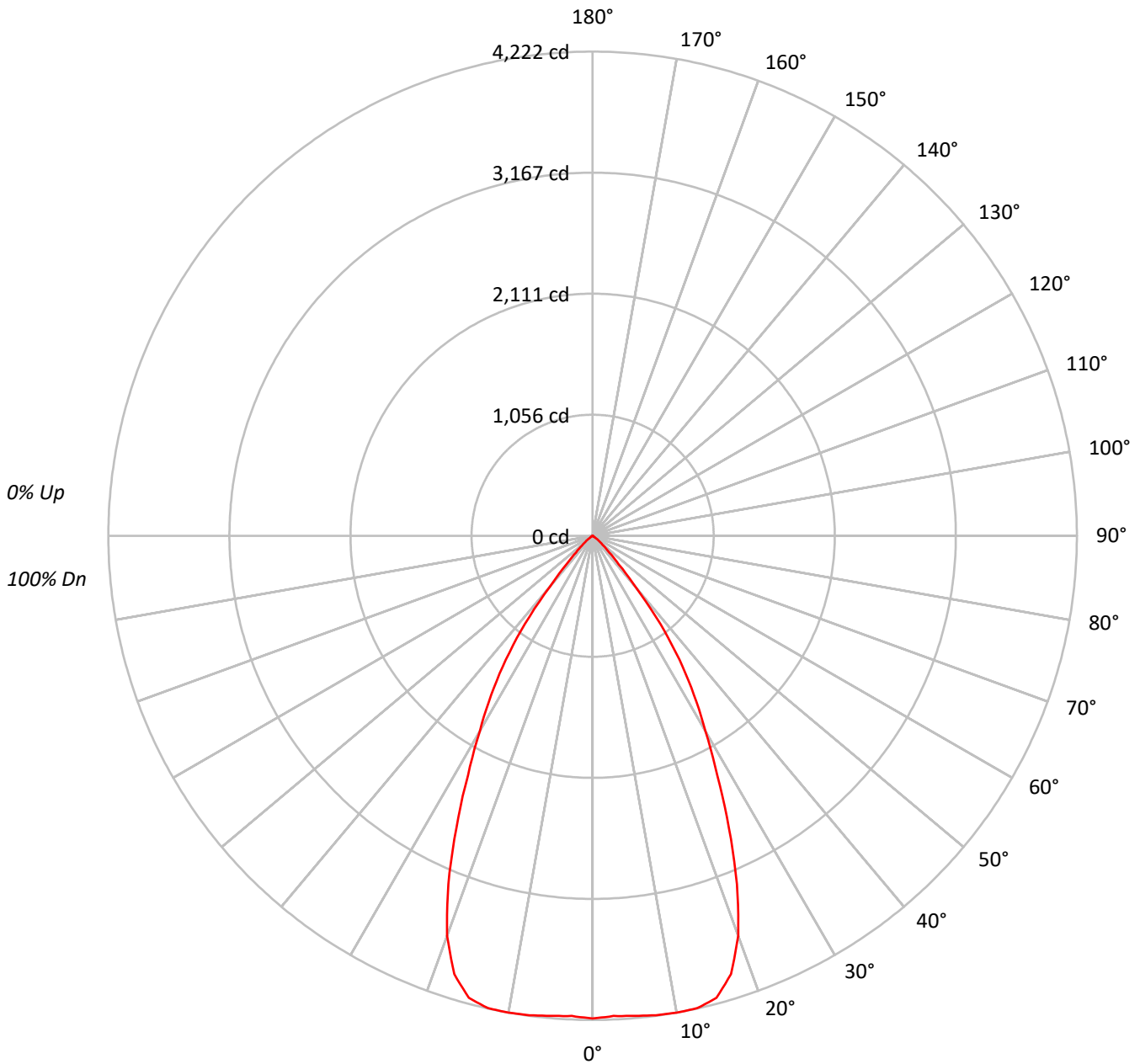
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	230755
5°	231218
10°	235027
15°	236738
20°	216406
25°	170048
30°	124475
35°	88298
40°	41764
45°	15932
50°	7147
55°	1940
60°	833
65°	649
70°	417
75°	551
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	10.4
10°-20°	1152.9	29.8
20°-30°	1282.4	33.2
30°-40°	801.1	20.7
40°-50°	190.4	4.9
50°-60°	27.2	0.7
60°-70°	5.6	0.1
70°-80°	2.4	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°	2837.3	73.4
0°-40°	3638.4	94.2
0°-60°	3856.0	99.8
0°-90°	3864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3864.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4209	
5°	4202	402
15°	4171	1153
25°	2811	1282
35°	1319	801
45°	206	190
55°	20	27
65°	5	6
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4209.3
2.5°	4191.6
5°	4201.7
7.5°	4216.9
10°	4222.1
12.5°	4219.5
15°	4171.3
17.5°	4009.0
20°	3709.5
22.5°	3288.3
25°	2811.3
27.5°	2354.6
30°	1966.4
32.5°	1644.2
35°	1319.4
37.5°	969.2
40°	583.6
42.5°	337.5
45°	205.5
47.5°	132.0
50°	83.8
52.5°	48.2
55°	20.3
57.5°	10.2
60°	7.6
62.5°	7.6
65°	5.0
67.5°	5.0
70°	2.6
72.5°	2.6
75°	2.6
77.5°	2.6
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)