

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: P593311

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593311
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-HM64560850-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5460.5 lumens
Efficiency: N/A
Efficacy: 124.1 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

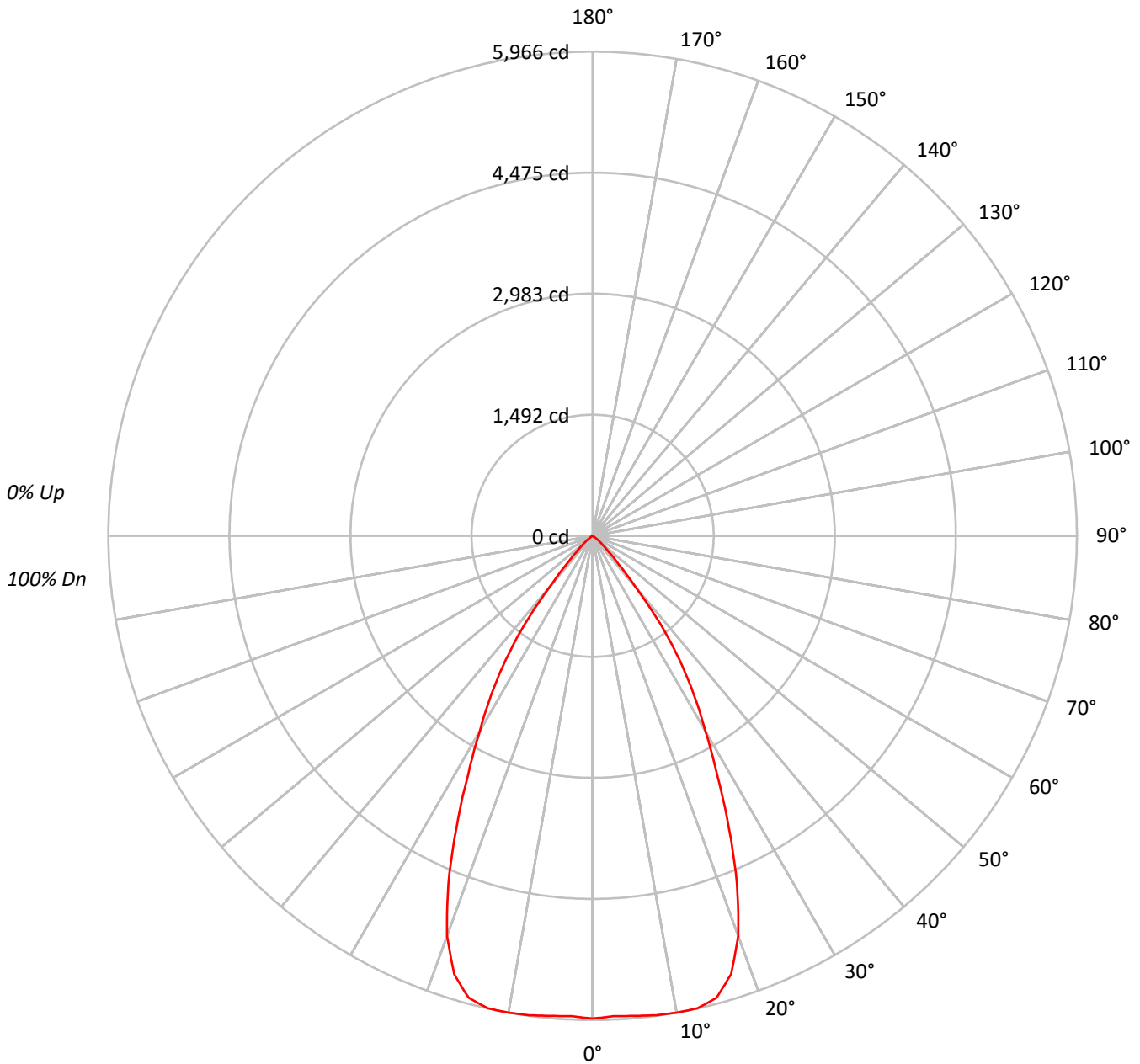
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	326103
5°	326755
10°	332130
15°	334554
20°	305827
25°	240316
30°	175900
35°	124778
40°	59018
45°	22514
50°	10098
55°	2743
60°	1184
65°	934
70°	577
75°	763
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.0	10.4
10°-20°	1629.3	29.8
20°-30°	1812.3	33.2
30°-40°	1132.1	20.7
40°-50°	269.0	4.9
50°-60°	38.5	0.7
60°-70°	8.0	0.1
70°-80°	3.3	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°	4009.6	73.4
0°-40°	5141.7	94.2
0°-60°	5449.2	99.8
0°-90°	5460.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5460.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5949	
5°	5938	568
15°	5895	1629
25°	3973	1812
35°	1864	1132
45°	290	269
55°	29	38
65°	7	8
75°	4	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5948.6
2.5°	5923.5
5°	5937.8
7.5°	5959.3
10°	5966.5
12.5°	5962.9
15°	5894.8
17.5°	5665.4
20°	5242.3
22.5°	4647.0
25°	3973.0
27.5°	3327.4
30°	2778.8
32.5°	2323.5
35°	1864.5
37.5°	1369.7
40°	824.7
42.5°	476.9
45°	290.4
47.5°	186.5
50°	118.4
52.5°	68.2
55°	28.7
57.5°	14.3
60°	10.8
62.5°	10.8
65°	7.2
67.5°	7.2
70°	3.6
72.5°	3.6
75°	3.6
77.5°	3.6
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)