

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: P582654

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560930-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4125.1 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

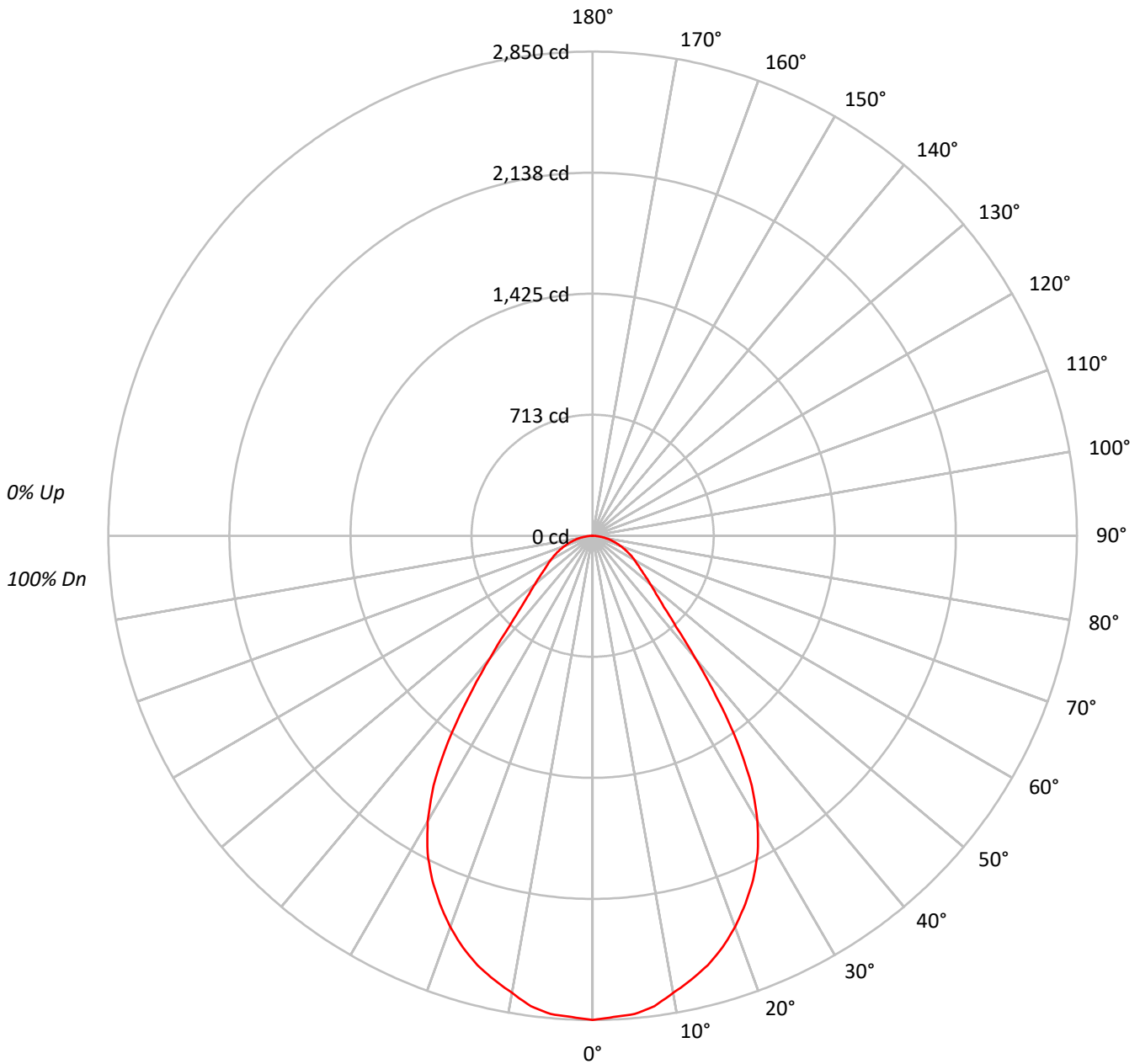
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	156248
5°	155508
10°	152074
15°	148508
20°	142923
25°	135171
30°	122835
35°	99428
40°	67047
45°	46067
50°	37756
55°	33041
60°	31247
65°	29497
70°	27697
75°	26328
80°	23930
85°	20945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	6.5
10°-20°	734.8	17.8
20°-30°	1020.9	24.7
30°-40°	909.0	22.0
40°-50°	482.5	11.7
50°-60°	315.6	7.6
60°-70°	226.1	5.5
70°-80°	131.1	3.2
80°-90°	38.3	0.9
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°	2022.5	49.0
0°-40°	2931.5	71.1
0°-60°	3729.5	90.4
0°-90°	4125.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2850	
5°	2826	267
15°	2617	735
25°	2235	1021
35°	1486	909
45°	594	483
55°	346	316
65°	227	226
75°	124	131
85°	33	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2850.2
2.5°	2835.0
5°	2825.9
7.5°	2792.6
10°	2731.9
12.5°	2677.4
15°	2616.7
17.5°	2540.8
20°	2449.9
22.5°	2346.8
25°	2234.7
27.5°	2104.2
30°	1940.5
32.5°	1743.4
35°	1485.7
37.5°	1200.7
40°	936.9
42.5°	727.7
45°	594.2
47.5°	506.4
50°	442.7
52.5°	391.1
55°	345.7
57.5°	312.3
60°	285.0
62.5°	257.7
65°	227.4
67.5°	200.1
70°	172.8
72.5°	148.6
75°	124.3
77.5°	100.1
80°	75.8
82.5°	54.5
85°	33.3
87.5°	15.1
90°	0.0



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— 0°-180°







(END OF REPORT)