

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: P582590

Luminaire Tested: **HC645D010-HM64560830-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560830-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5183.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

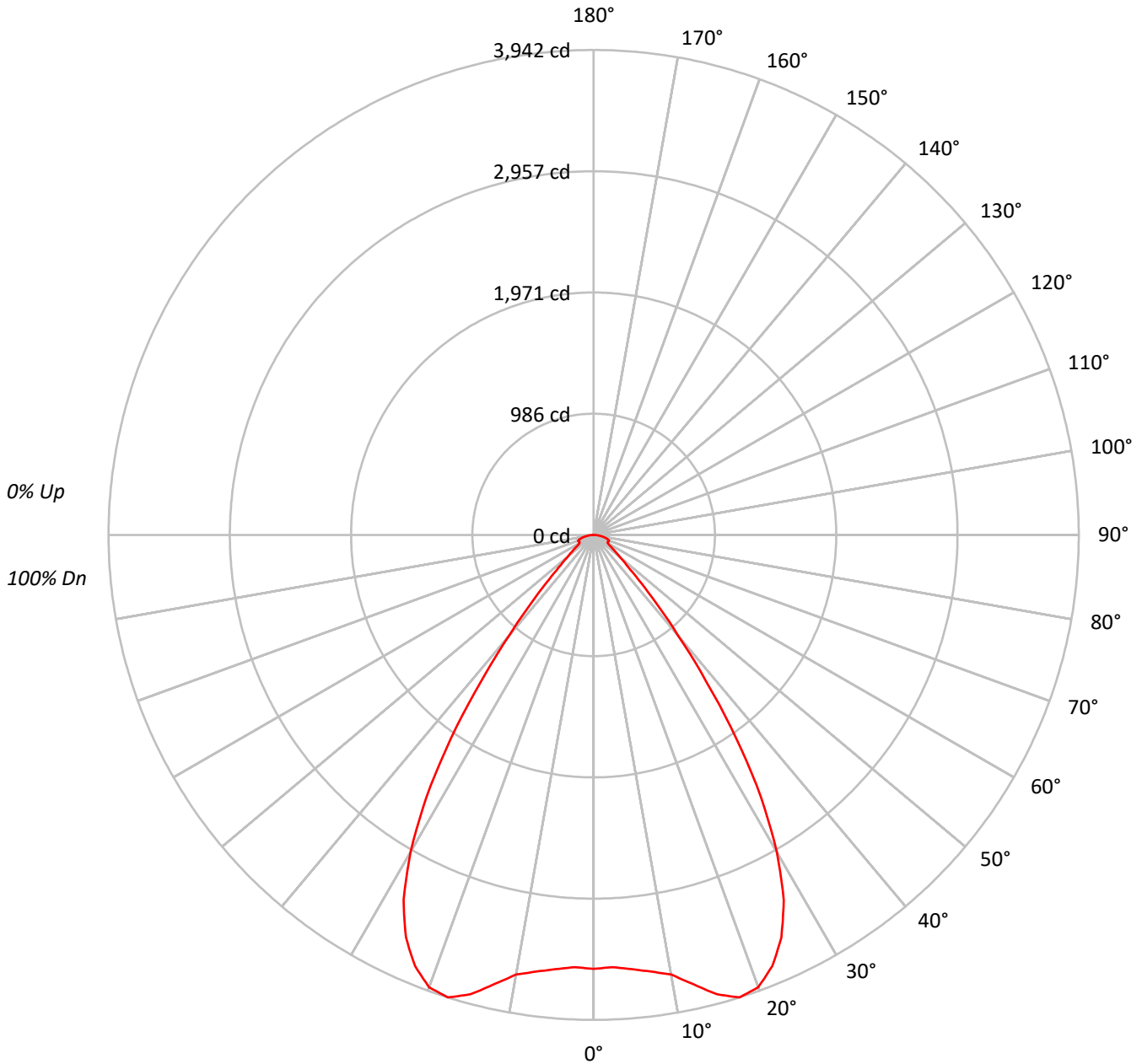
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

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

	0°
0°	193312
5°	194959
10°	201978
15°	219394
20°	228208
25°	218275
30°	188377
35°	135640
40°	76415
45°	39601
50°	23607
55°	17003
60°	14451
65°	16681
70°	21125
75°	22346
80°	21846
85°	20757



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.9	6.6
10°-20°	1090.3	21.0
20°-30°	1629.6	31.4
30°-40°	1245.7	24.0
40°-50°	435.1	8.4
50°-60°	165.8	3.2
60°-70°	130.1	2.5
70°-80°	110.0	2.1
80°-90°	35.4	0.7
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°	3060.8	59.1
0°-40°	4306.6	83.1
0°-60°	4907.5	94.7
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3526	
5°	3543	341
15°	3866	1090
25°	3609	1630
35°	2027	1246
45°	511	435
55°	178	166
65°	129	130
75°	106	110
85°	33	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3526.3
2.5°	3516.4
5°	3542.8
7.5°	3579.1
10°	3628.4
12.5°	3740.5
15°	3865.7
17.5°	3941.5
20°	3911.8
22.5°	3793.2
25°	3608.6
27.5°	3345.0
30°	2975.9
32.5°	2534.3
35°	2026.8
37.5°	1502.7
40°	1067.8
42.5°	748.1
45°	510.8
47.5°	359.2
50°	276.8
52.5°	217.5
55°	177.9
57.5°	145.0
60°	131.8
62.5°	128.6
65°	128.6
67.5°	135.1
70°	131.8
72.5°	122.0
75°	105.5
77.5°	89.0
80°	69.2
82.5°	49.4
85°	33.0
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)