

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: P582644

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582644  
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-HM64560927-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3990.8 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

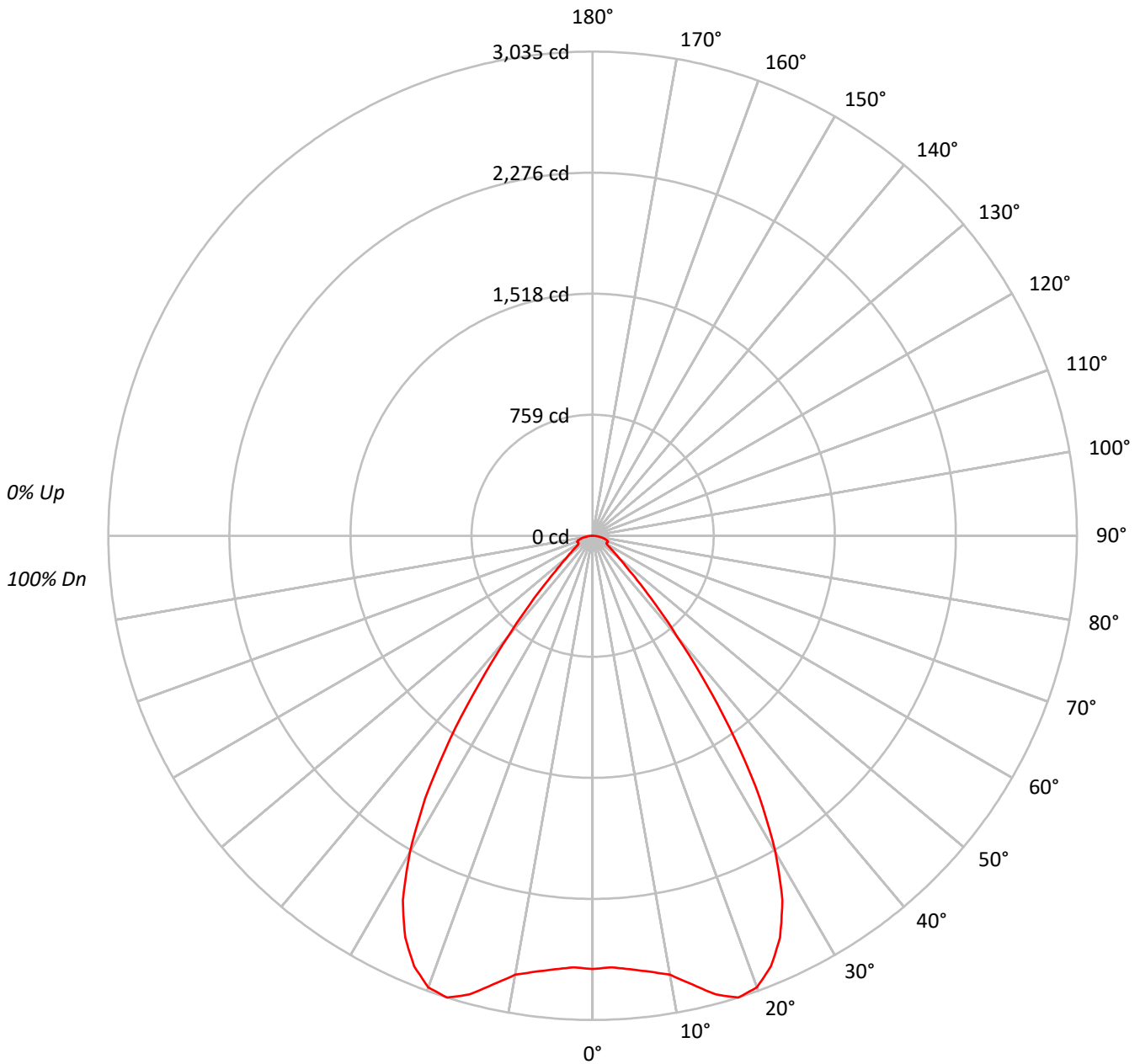
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

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

	0°
0°	148842
5°	150110
10°	155525
15°	168928
20°	175715
25°	168070
30°	145041
35°	104440
40°	58839
45°	30492
50°	18174
55°	13094
60°	11128
65°	12842
70°	16269
75°	17199
80°	16827
85°	15913



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.5	6.6
10°-20°	839.5	21.0
20°-30°	1254.8	31.4
30°-40°	959.2	24.0
40°-50°	335.0	8.4
50°-60°	127.7	3.2
60°-70°	100.2	2.5
70°-80°	84.7	2.1
80°-90°	27.2	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°	2356.8	59.1
0°-40°	3316.0	83.1
0°-60°	3778.7	94.7
0°-90°	3990.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2715	
5°	2728	262
15°	2976	840
25°	2779	1255
35°	1561	959
45°	393	335
55°	137	128
65°	99	100
75°	81	85
85°	25	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2715.1
2.5°	2707.5
5°	2727.8
7.5°	2755.7
10°	2793.9
12.5°	2880.1
15°	2976.5
17.5°	3034.9
20°	3012.0
22.5°	2920.7
25°	2778.6
27.5°	2575.6
30°	2291.3
32.5°	1951.3
35°	1560.6
37.5°	1157.0
40°	822.2
42.5°	576.1
45°	393.3
47.5°	276.6
50°	213.1
52.5°	167.5
55°	137.0
57.5°	111.7
60°	101.5
62.5°	99.0
65°	99.0
67.5°	104.0
70°	101.5
72.5°	93.8
75°	81.2
77.5°	68.5
80°	53.3
82.5°	38.0
85°	25.3
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)