

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: P593333

Luminaire Tested: **HC645D010-HM64560950-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593333  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560950-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4479.4 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

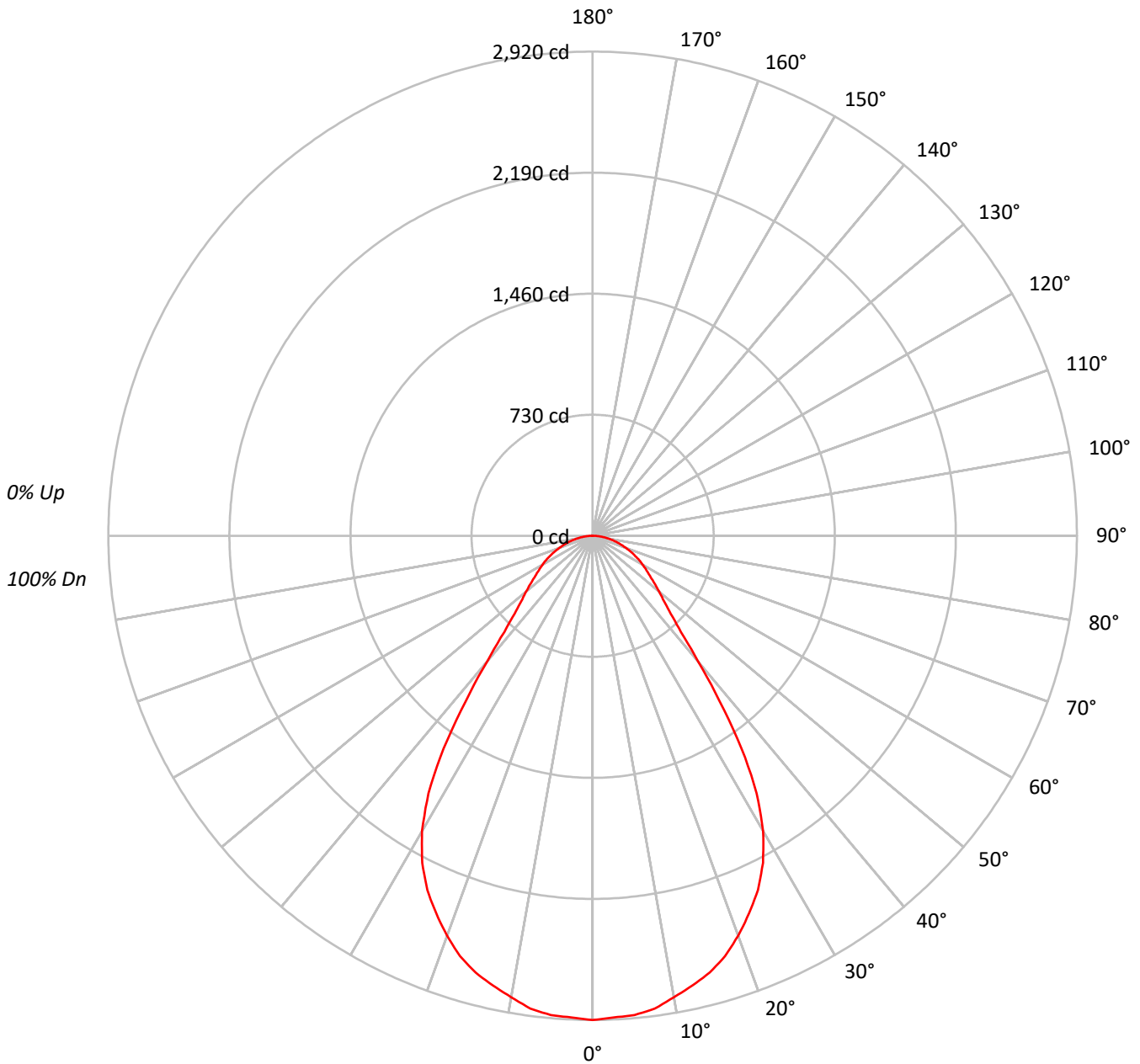
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	160102
5°	159668
10°	157284
15°	154797
20°	149708
25°	142587
30°	130191
35°	104822
40°	70647
45°	51517
50°	44527
55°	40228
60°	38155
65°	36126
70°	33980
75°	32174
80°	29960
85°	27864



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.6	6.1
10°-20°	765.9	17.1
20°-30°	1076.1	24.0
30°-40°	957.9	21.4
40°-50°	535.3	12.0
50°-60°	381.4	8.5
60°-70°	277.5	6.2
70°-80°	160.7	3.6
80°-90°	49.9	1.1
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°	2116.7	47.3
0°-40°	3074.6	68.6
0°-60°	3991.3	89.1
0°-90°	4479.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4479.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2920	
5°	2902	275
15°	2728	766
25°	2357	1076
35°	1566	958
45°	664	535
55°	421	381
65°	278	277
75°	152	161
85°	44	50
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2920.5
2.5°	2907.9
5°	2901.5
7.5°	2876.2
10°	2825.5
12.5°	2778.1
15°	2727.5
17.5°	2657.9
20°	2566.2
22.5°	2464.8
25°	2357.3
27.5°	2224.4
30°	2056.7
32.5°	1841.5
35°	1566.3
37.5°	1256.2
40°	987.2
42.5°	787.9
45°	664.5
47.5°	582.2
50°	522.1
52.5°	468.3
55°	420.9
57.5°	382.9
60°	348.0
62.5°	316.4
65°	278.5
67.5°	246.8
70°	212.0
72.5°	180.4
75°	151.9
77.5°	123.4
80°	94.9
82.5°	69.6
85°	44.3
87.5°	22.2
90°	0.0



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— 0°-180°







(END OF REPORT)