

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: P580814

Luminaire Tested: **HC445D010-HM44560940-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560940-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4183.8 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

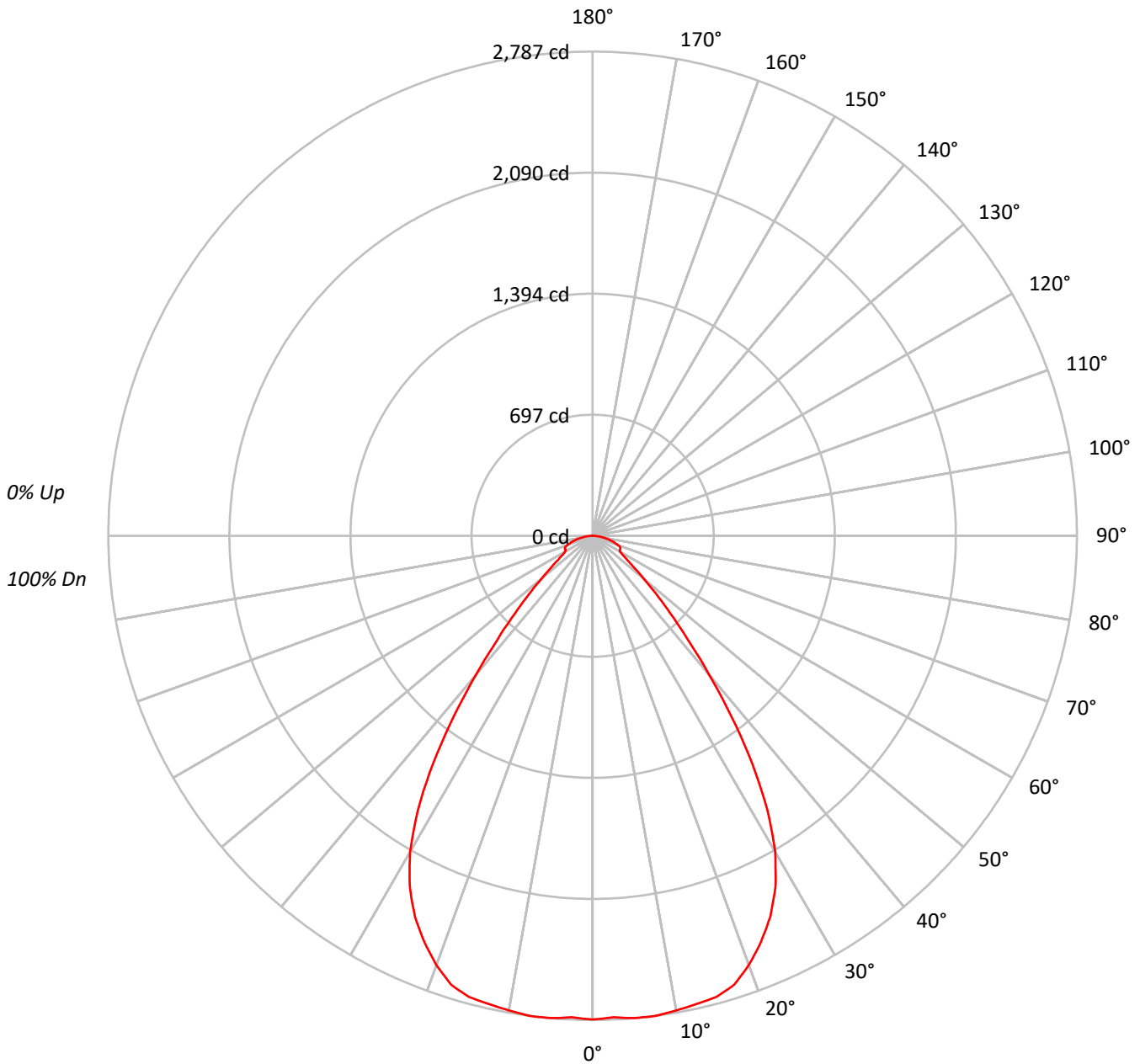
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	343468
5°	345102
10°	347477
15°	350949
20°	345100
25°	329218
30°	299126
35°	241270
40°	167393
45°	109895
50°	73629
55°	52407
60°	44774
65°	51455
70°	55142
75°	53138
80°	47876
85°	44014



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.6	6.3
10°-20°	772.1	18.5
20°-30°	1103.1	26.4
30°-40°	985.4	23.6
40°-50°	505.4	12.1
50°-60°	229.8	5.5
60°-70°	171.3	4.1
70°-80°	116.6	2.8
80°-90°	34.6	0.8
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°	2140.8	51.2
0°-40°	3126.1	74.7
0°-60°	3861.3	92.3
0°-90°	4183.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4183.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2785	
5°	2787	266
15°	2748	772
25°	2419	1103
35°	1602	985
45°	630	505
55°	244	230
65°	176	171
75°	112	117
85°	31	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2784.6
2.5°	2774.3
5°	2787.2
7.5°	2787.2
10°	2774.3
12.5°	2761.2
15°	2748.3
17.5°	2709.4
20°	2629.1
22.5°	2530.6
25°	2419.0
27.5°	2279.0
30°	2100.2
32.5°	1871.9
35°	1602.3
37.5°	1314.5
40°	1039.6
42.5°	811.5
45°	630.0
47.5°	492.7
50°	383.7
52.5°	300.8
55°	243.7
57.5°	204.9
60°	181.5
62.5°	176.3
65°	176.3
67.5°	171.1
70°	152.9
72.5°	132.3
75°	111.5
77.5°	88.2
80°	67.4
82.5°	49.3
85°	31.1
87.5°	13.0
90°	0.0



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— 0°-180°







(END OF REPORT)