

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: P580733

Luminaire Tested: **HC445D010-HM44560835-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560835-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4095.5 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

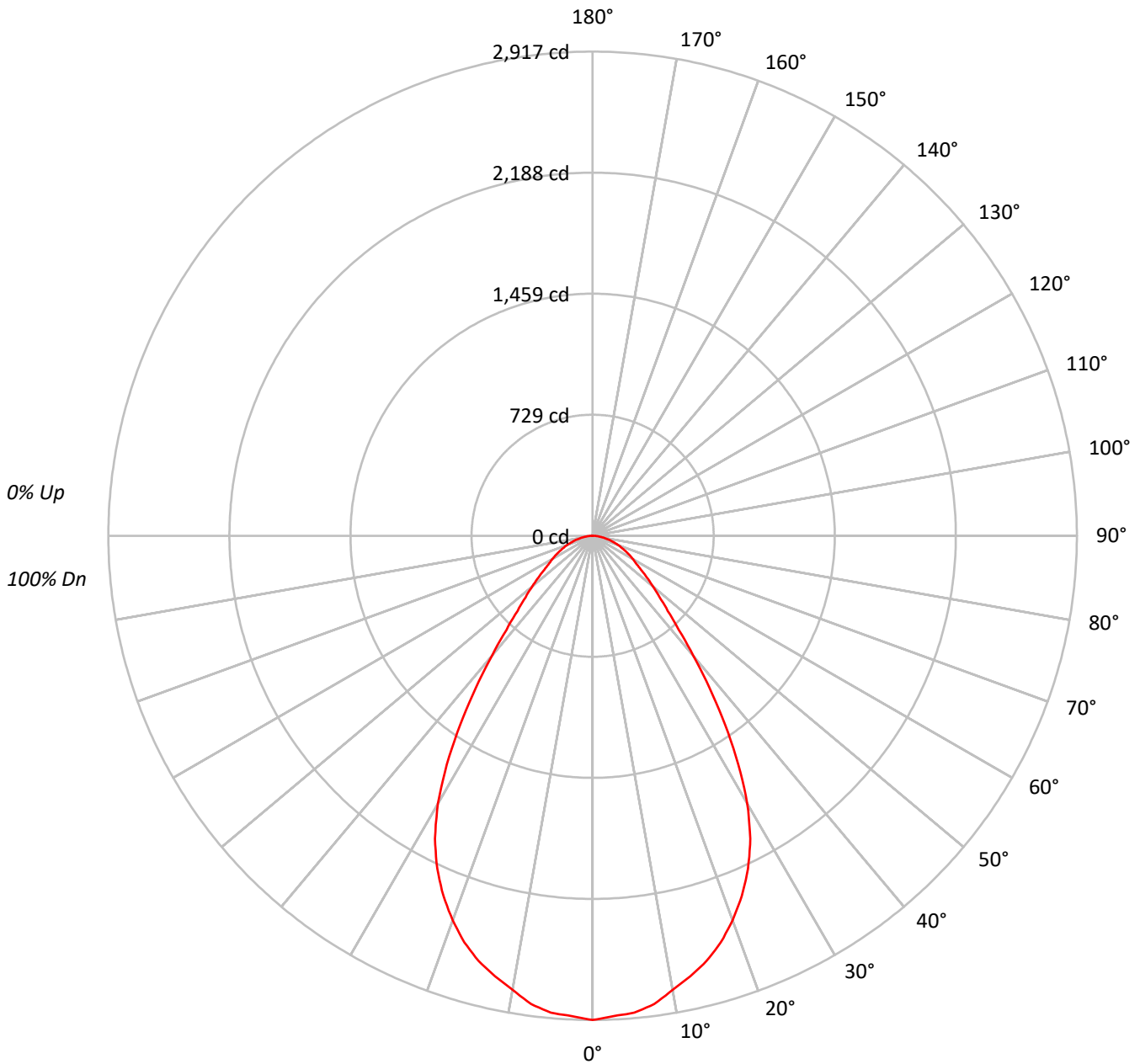
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

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

	0°
0°	359812
5°	357125
10°	347840
15°	338677
20°	323521
25°	301400
30°	265399
35°	209302
40°	151935
45°	111640
50°	90822
55°	76169
60°	69024
65°	63421
70°	59037
75°	53900
80°	48586
85°	42032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.9	6.6
10°-20°	743.9	18.2
20°-30°	1008.4	24.6
30°-40°	865.3	21.1
40°-50°	510.9	12.5
50°-60°	323.8	7.9
60°-70°	217.5	5.3
70°-80°	120.1	2.9
80°-90°	33.6	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°	2024.3	49.4
0°-40°	2889.6	70.6
0°-60°	3724.3	90.9
0°-90°	4095.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2917	
5°	2884	272
15°	2652	744
25°	2215	1008
35°	1390	865
45°	640	511
55°	354	324
65°	217	218
75°	113	120
85°	30	34
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2917.1
2.5°	2896.2
5°	2884.3
7.5°	2845.6
10°	2777.2
12.5°	2717.7
15°	2652.2
17.5°	2568.8
20°	2464.7
22.5°	2348.6
25°	2214.6
27.5°	2056.9
30°	1863.4
32.5°	1634.2
35°	1390.0
37.5°	1155.0
40°	943.6
42.5°	768.0
45°	640.0
47.5°	547.6
50°	473.3
52.5°	410.8
55°	354.2
57.5°	309.6
60°	279.8
62.5°	250.0
65°	217.3
67.5°	190.5
70°	163.7
72.5°	136.9
75°	113.1
77.5°	89.3
80°	68.4
82.5°	47.6
85°	29.7
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)