

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: P581213

Luminaire Tested: **HC455D010-HM44560930-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560930-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

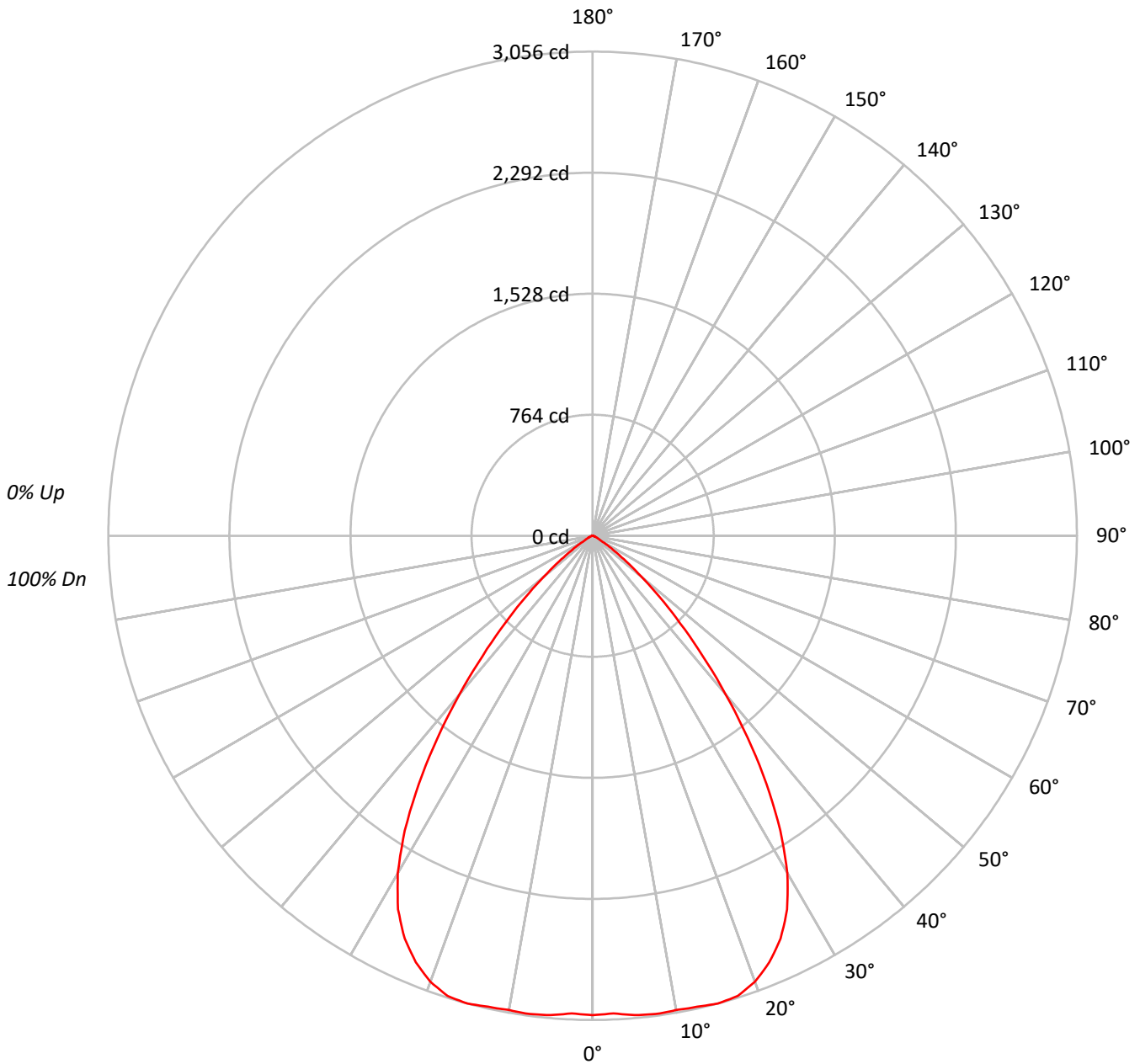
Lumens per Lamp: N/A  
Luminaire Lumens: 4438.8 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

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

	0°
0°	373207
5°	376007
10°	380705
15°	390280
20°	393142
25°	381888
30°	350143
35°	288099
40°	209997
45°	136305
50°	76853
55°	36472
60°	14407
65°	8931
70°	6023
75°	3956
80°	1989
85°	3963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.0	6.5
10°-20°	861.6	19.4
20°-30°	1278.0	28.8
30°-40°	1180.4	26.6
40°-50°	616.3	13.9
50°-60°	168.9	3.8
60°-70°	32.5	0.7
70°-80°	9.1	0.2
80°-90°	1.9	0.0
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°	2429.6	54.7
0°-40°	3610.0	81.3
0°-60°	4395.3	99.0
0°-90°	4438.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4438.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3026	
5°	3037	290
15°	3056	862
25°	2806	1278
35°	1913	1180
45°	781	616
55°	170	169
65°	31	33
75°	8	9
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3025.7
2.5°	3017.4
5°	3036.8
7.5°	3045.2
10°	3039.6
12.5°	3045.2
15°	3056.3
17.5°	3045.2
20°	2995.1
22.5°	2914.4
25°	2806.0
27.5°	2658.6
30°	2458.4
32.5°	2205.3
35°	1913.3
37.5°	1607.4
40°	1304.2
42.5°	1026.2
45°	781.4
47.5°	572.8
50°	400.5
52.5°	267.0
55°	169.6
57.5°	100.1
60°	58.4
62.5°	41.7
65°	30.6
67.5°	22.3
70°	16.7
72.5°	11.1
75°	8.3
77.5°	5.5
80°	2.8
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)