

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: P581202

Luminaire Tested: **HC455D010-HM44560927-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560927-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3618.1 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

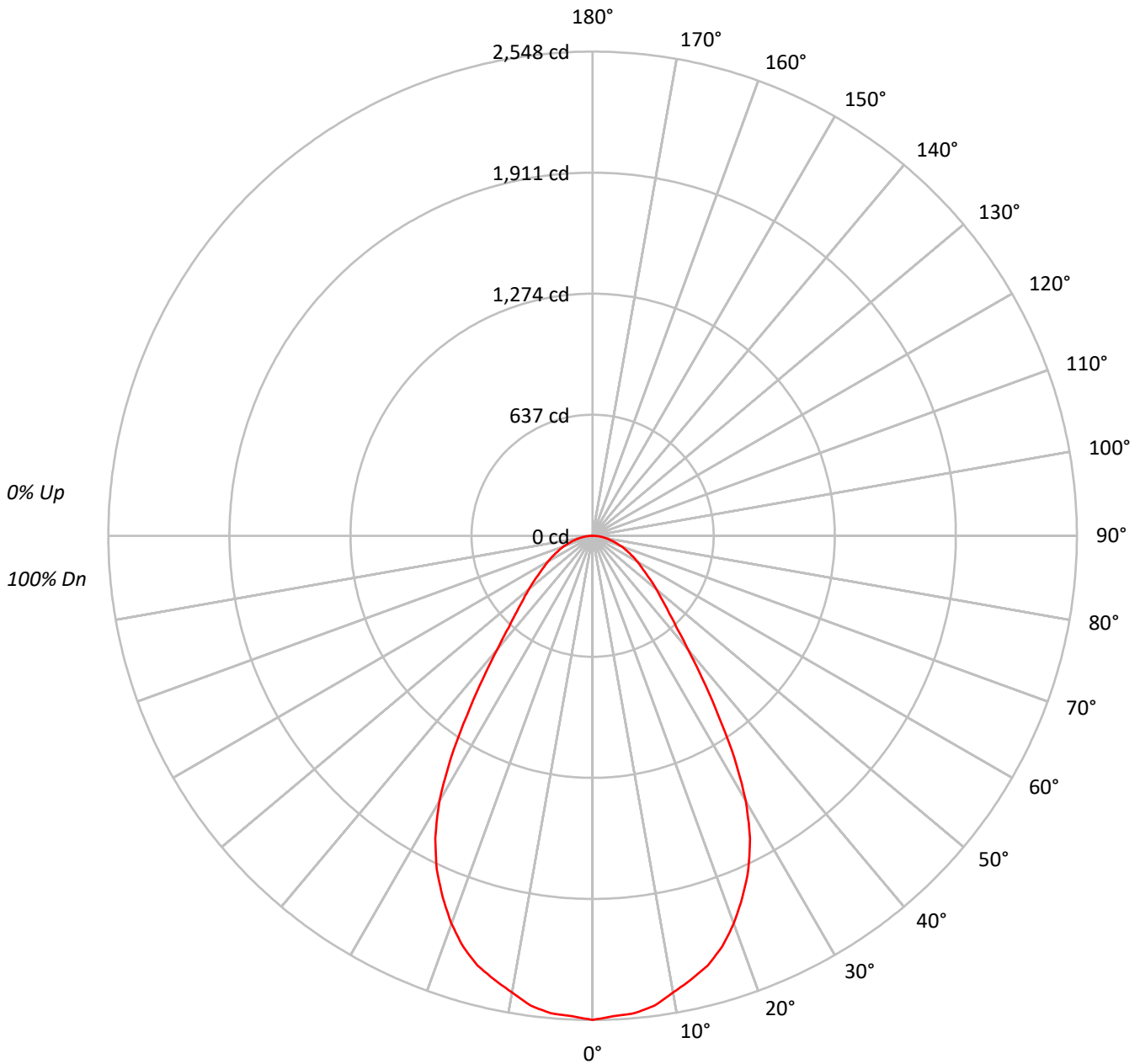
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

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

	0°
0°	314272
5°	312315
10°	305669
15°	298900
20°	285074
25°	263892
30°	229536
35°	173329
40°	125625
45°	98173
50°	83933
55°	72621
60°	66878
65°	61232
70°	57197
75°	52423
80°	49083
85°	47127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.2	6.6
10°-20°	655.7	18.1
20°-30°	881.6	24.4
30°-40°	724.9	20.0
40°-50°	445.2	12.3
50°-60°	308.1	8.5
60°-70°	210.0	5.8
70°-80°	117.0	3.2
80°-90°	37.3	1.0
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°	1775.5	49.1
0°-40°	2500.5	69.1
0°-60°	3253.8	89.9
0°-90°	3618.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3618.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2548	
5°	2522	238
15°	2341	656
25°	1939	882
35°	1151	725
45°	563	445
55°	338	308
65°	210	210
75°	110	117
85°	33	37
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2547.9
2.5°	2530.0
5°	2522.4
7.5°	2494.1
10°	2440.5
12.5°	2391.9
15°	2340.7
17.5°	2266.5
20°	2171.8
22.5°	2059.3
25°	1939.0
27.5°	1793.2
30°	1611.6
32.5°	1389.0
35°	1151.1
37.5°	946.5
40°	780.2
42.5°	652.3
45°	562.8
47.5°	493.8
50°	437.4
52.5°	386.3
55°	337.7
57.5°	301.8
60°	271.1
62.5°	240.4
65°	209.8
67.5°	184.2
70°	158.6
72.5°	133.0
75°	110.0
77.5°	87.0
80°	69.1
82.5°	51.2
85°	33.3
87.5°	17.9
90°	0.0



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— 0°-180°







(END OF REPORT)