

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: P581238

Luminaire Tested: **HC455D010-HM44560935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581238  
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-HM44560935-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4090.9 lumens  
Efficiency: N/A  
Efficacy: 78.7 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

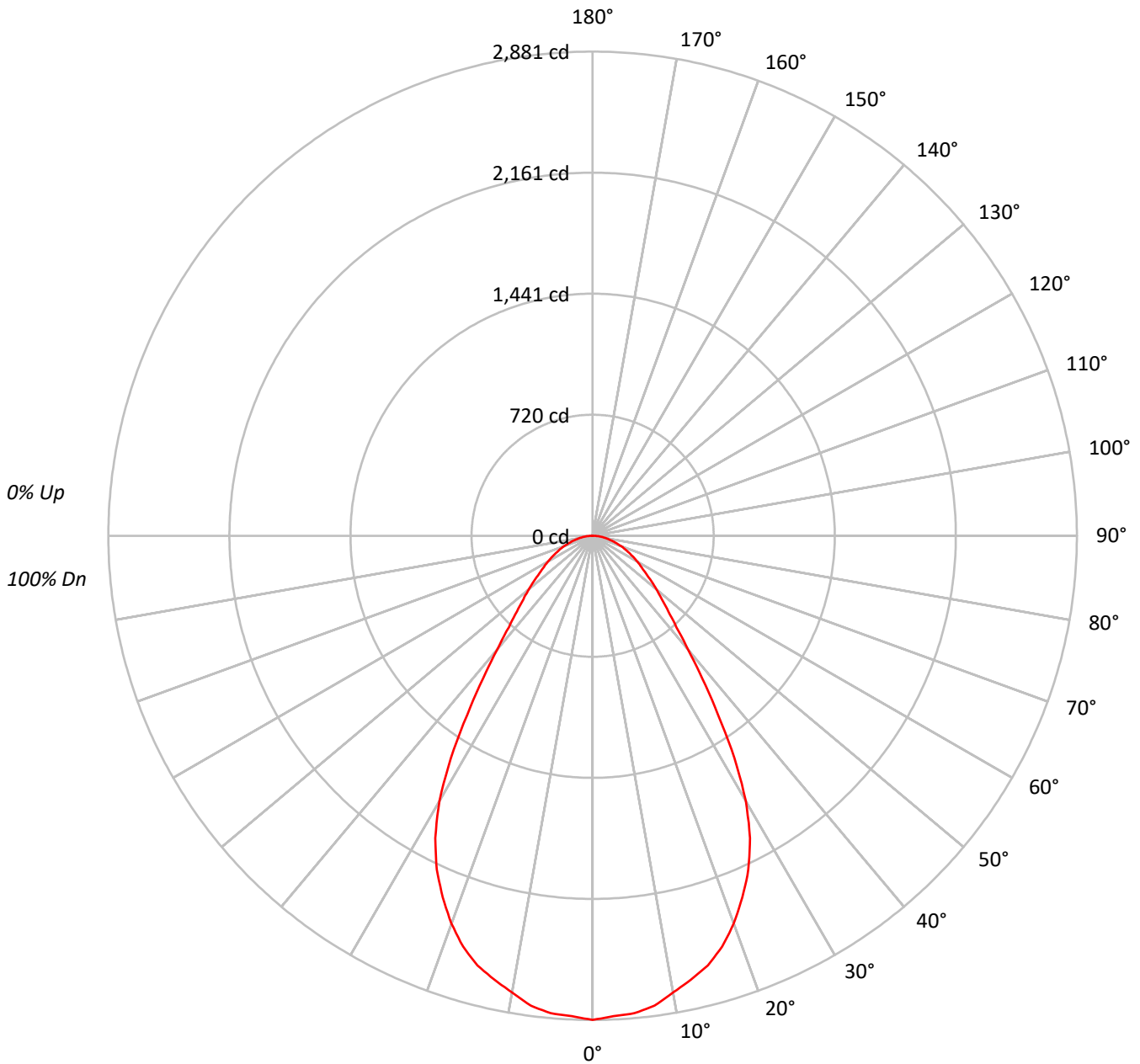
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	355334
5°	353113
10°	345611
15°	337962
20°	322326
25°	298379
30°	259531
35°	195991
40°	142049
45°	110994
50°	94910
55°	82105
60°	75636
65°	69229
70°	64662
75°	59285
80°	55476
85°	53213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.4	6.6
10°-20°	741.3	18.1
20°-30°	996.9	24.4
30°-40°	819.7	20.0
40°-50°	503.4	12.3
50°-60°	348.4	8.5
60°-70°	237.5	5.8
70°-80°	132.3	3.2
80°-90°	42.1	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°	2007.5	49.1
0°-40°	2827.3	69.1
0°-60°	3679.0	89.9
0°-90°	4090.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2881	
5°	2852	269
15°	2647	741
25°	2192	997
35°	1302	820
45°	636	503
55°	382	348
65°	237	237
75°	124	132
85°	38	42
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2880.8
2.5°	2860.5
5°	2851.9
7.5°	2820.2
10°	2759.4
12.5°	2704.4
15°	2646.6
17.5°	2562.6
20°	2455.6
22.5°	2328.4
25°	2192.4
27.5°	2027.6
30°	1822.2
32.5°	1570.6
35°	1301.6
37.5°	1070.2
40°	882.2
42.5°	737.6
45°	636.3
47.5°	558.2
50°	494.6
52.5°	436.7
55°	381.8
57.5°	341.3
60°	306.6
62.5°	271.9
65°	237.2
67.5°	208.2
70°	179.3
72.5°	150.4
75°	124.4
77.5°	98.3
80°	78.1
82.5°	57.8
85°	37.6
87.5°	20.2
90°	0.0



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— 0°-180°







(END OF REPORT)