

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: P581246

Luminaire Tested: **HC455D010-HM44560940-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581246  
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: HC455D010-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: 4633.1 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

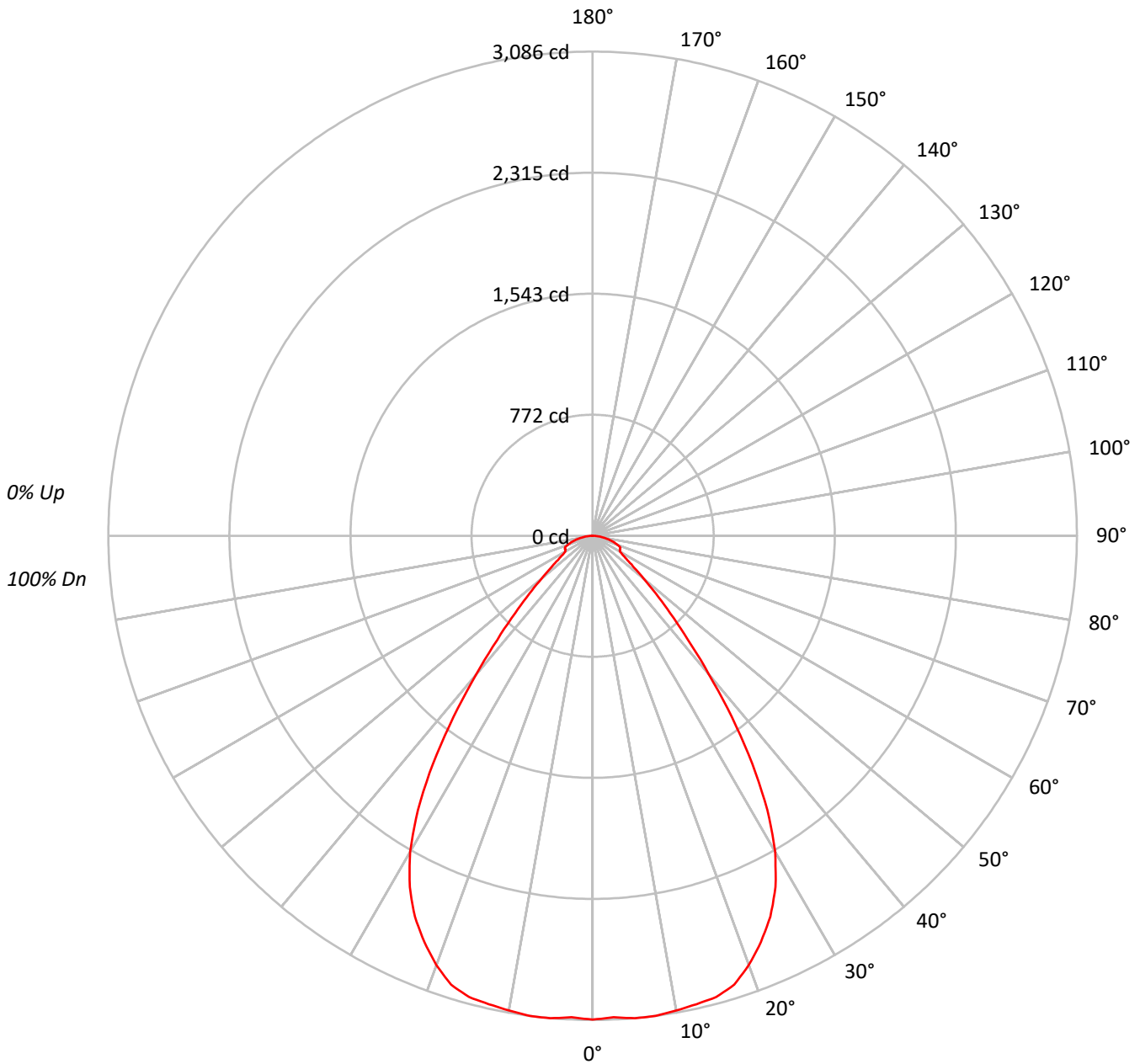
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	380361
5°	382161
10°	384801
15°	388645
20°	382155
25°	364576
30°	331243
35°	267199
40°	185378
45°	121705
50°	81535
55°	58041
60°	49585
65°	56971
70°	61092
75°	58809
80°	53061
85°	48684



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.1	6.3
10°-20°	855.0	18.5
20°-30°	1221.5	26.4
30°-40°	1091.3	23.6
40°-50°	559.7	12.1
50°-60°	254.4	5.5
60°-70°	189.7	4.1
70°-80°	129.1	2.8
80°-90°	38.3	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°	2370.7	51.2
0°-40°	3461.9	74.7
0°-60°	4276.0	92.3
0°-90°	4633.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4633.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3084	
5°	3086	294
15°	3044	855
25°	2679	1222
35°	1774	1091
45°	698	560
55°	270	254
65°	195	190
75°	123	129
85°	34	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3083.7
2.5°	3072.3
5°	3086.5
7.5°	3086.5
10°	3072.3
12.5°	3057.9
15°	3043.5
17.5°	3000.5
20°	2911.4
22.5°	2802.3
25°	2678.8
27.5°	2523.8
30°	2325.7
32.5°	2073.0
35°	1774.5
37.5°	1455.8
40°	1151.3
42.5°	898.6
45°	697.7
47.5°	545.5
50°	424.9
52.5°	333.1
55°	269.9
57.5°	226.8
60°	201.0
62.5°	195.2
65°	195.2
67.5°	189.5
70°	169.4
72.5°	146.5
75°	123.4
77.5°	97.6
80°	74.7
82.5°	54.6
85°	34.4
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)