

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: P581245

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560940-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3723.2 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

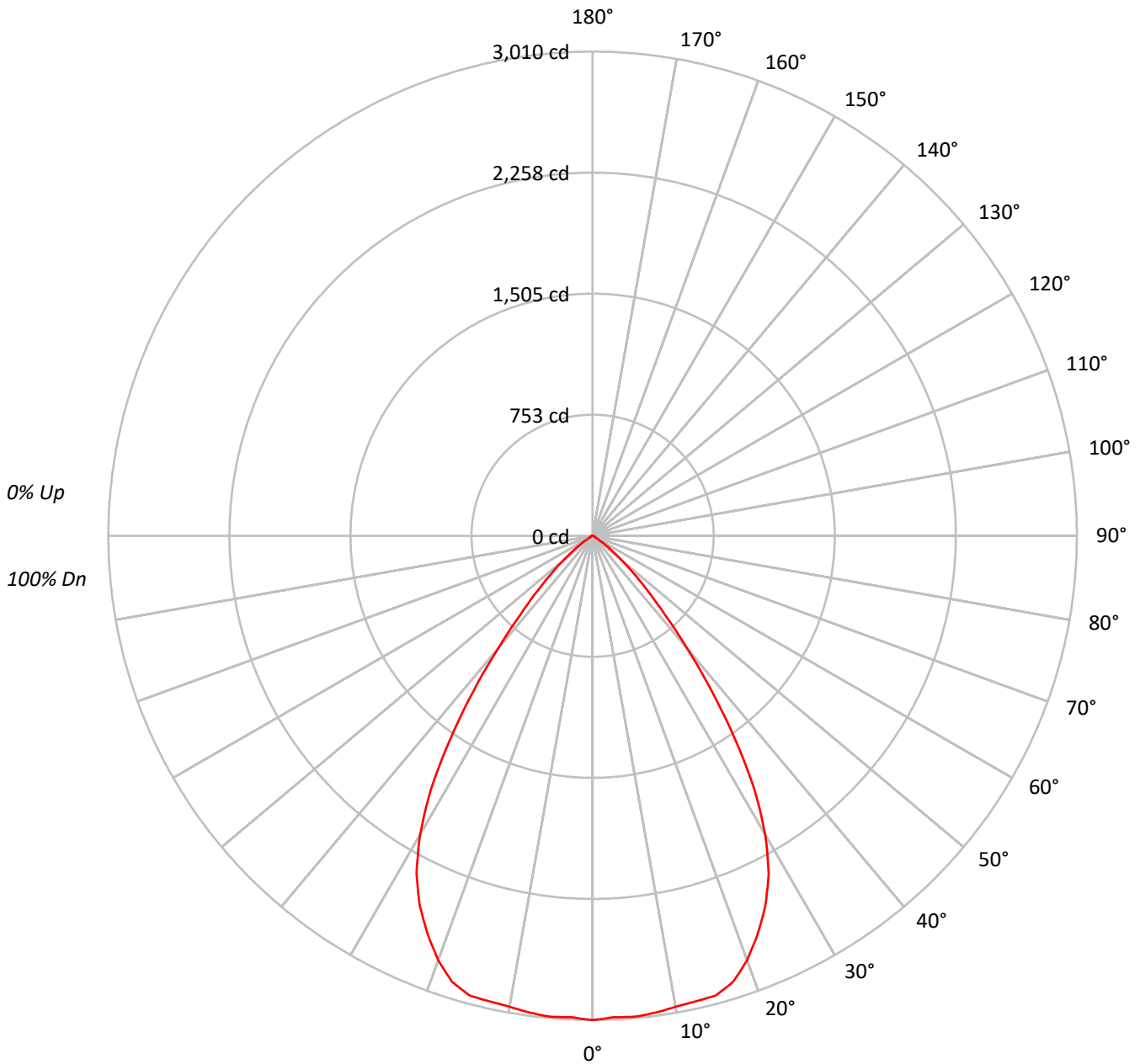
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45

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

	0°
0°	371307
5°	371661
10°	372364
15°	377804
20°	368386
25°	345645
30°	305720
35°	232461
40°	146477
45°	84096
50°	44596
55°	18516
60°	4958
65°	4203
70°	3138
75°	2716
80°	2060
85°	4104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.5	7.7
10°-20°	828.4	22.3
20°-30°	1156.2	31.1
30°-40°	951.4	25.6
40°-50°	391.9	10.5
50°-60°	88.3	2.4
60°-70°	14.2	0.4
70°-80°	5.3	0.1
80°-90°	2.0	0.1
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°	2270.1	61.0
0°-40°	3221.5	86.5
0°-60°	3701.7	99.4
0°-90°	3723.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3010	
5°	3002	285
15°	2959	828
25°	2540	1156
35°	1544	951
45°	482	392
55°	86	88
65°	14	14
75°	6	5
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3010.3
2.5°	2996.0
5°	3001.7
7.5°	2990.2
10°	2973.0
12.5°	2964.4
15°	2958.6
17.5°	2907.0
20°	2806.5
22.5°	2680.3
25°	2539.7
27.5°	2370.4
30°	2146.5
32.5°	1871.0
35°	1543.8
37.5°	1213.9
40°	909.7
42.5°	662.8
45°	482.1
47.5°	344.4
50°	232.4
52.5°	146.4
55°	86.1
57.5°	43.1
60°	20.1
62.5°	17.2
65°	14.4
67.5°	11.5
70°	8.7
72.5°	5.7
75°	5.7
77.5°	2.9
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)