

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: P592908

Luminaire Tested: **HC455D010-HM44560850-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592908  
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-HM44560850-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4873.5 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

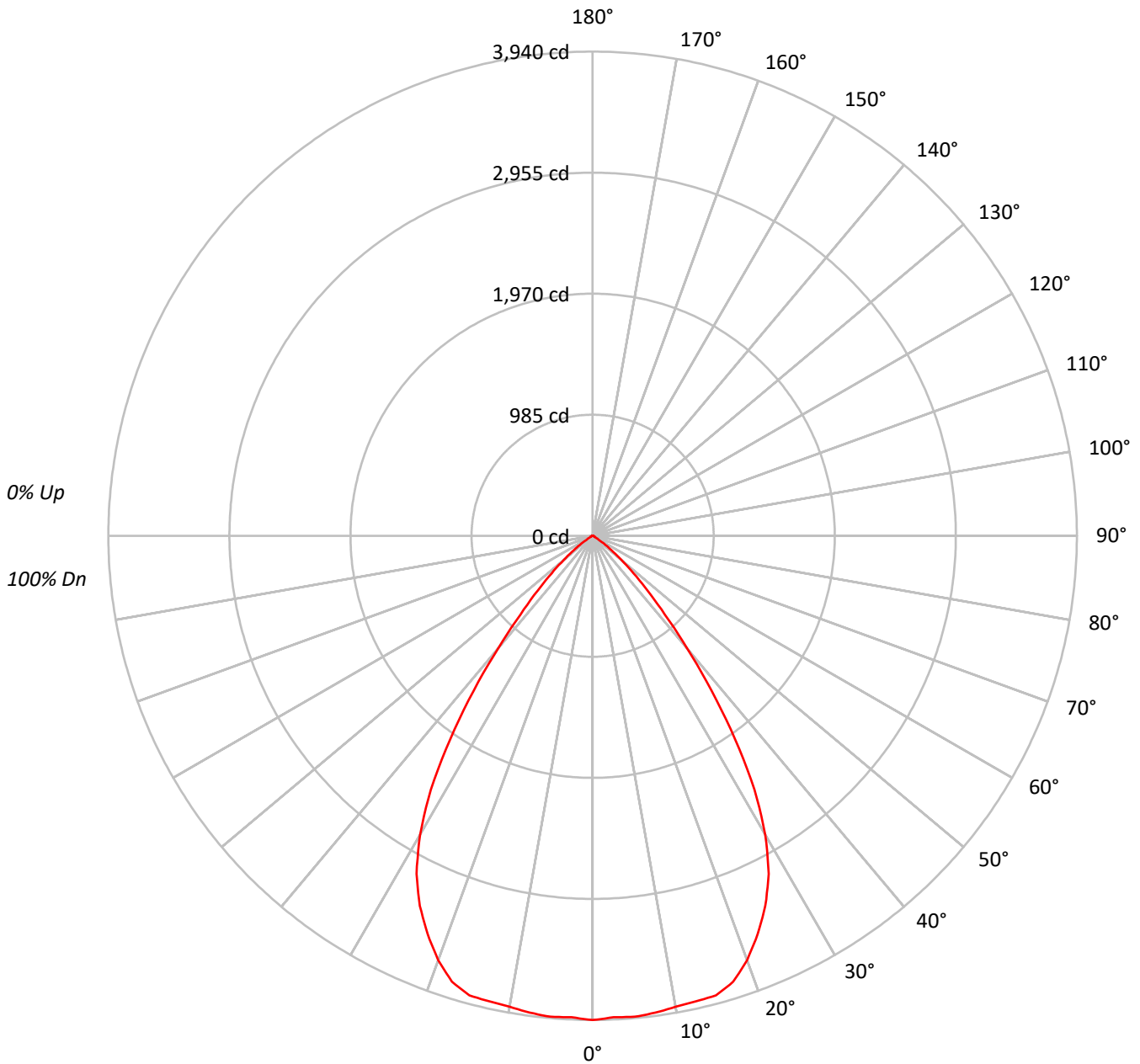
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

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

	0°
0°	486031
5°	486489
10°	487417
15°	494544
20°	482216
25°	452440
30°	400178
35°	304317
40°	191722
45°	110070
50°	58393
55°	24236
60°	6488
65°	5487
70°	4039
75°	3574
80°	2628
85°	5236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.7	7.7
10°-20°	1084.4	22.3
20°-30°	1513.4	31.1
30°-40°	1245.4	25.6
40°-50°	513.0	10.5
50°-60°	115.6	2.4
60°-70°	18.6	0.4
70°-80°	6.9	0.1
80°-90°	2.5	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°	2971.5	61.0
0°-40°	4216.9	86.5
0°-60°	4845.5	99.4
0°-90°	4873.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4873.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3940	
5°	3929	374
15°	3873	1084
25°	3324	1513
35°	2021	1245
45°	631	513
55°	113	116
65°	19	19
75°	8	7
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3940.4
2.5°	3921.6
5°	3929.1
7.5°	3914.1
10°	3891.6
12.5°	3880.2
15°	3872.8
17.5°	3805.2
20°	3673.7
22.5°	3508.4
25°	3324.4
27.5°	3102.8
30°	2809.7
32.5°	2449.1
35°	2021.0
37.5°	1589.0
40°	1190.7
42.5°	867.7
45°	631.0
47.5°	450.8
50°	304.3
52.5°	191.6
55°	112.7
57.5°	56.4
60°	26.3
62.5°	22.5
65°	18.8
67.5°	15.1
70°	11.2
72.5°	7.5
75°	7.5
77.5°	3.7
80°	3.7
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)