

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: P581155

Luminaire Tested: **HC455D010-HM44560835-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581155
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-HM44560835-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.1 lumens
Efficiency: N/A
Efficacy: 82.2 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

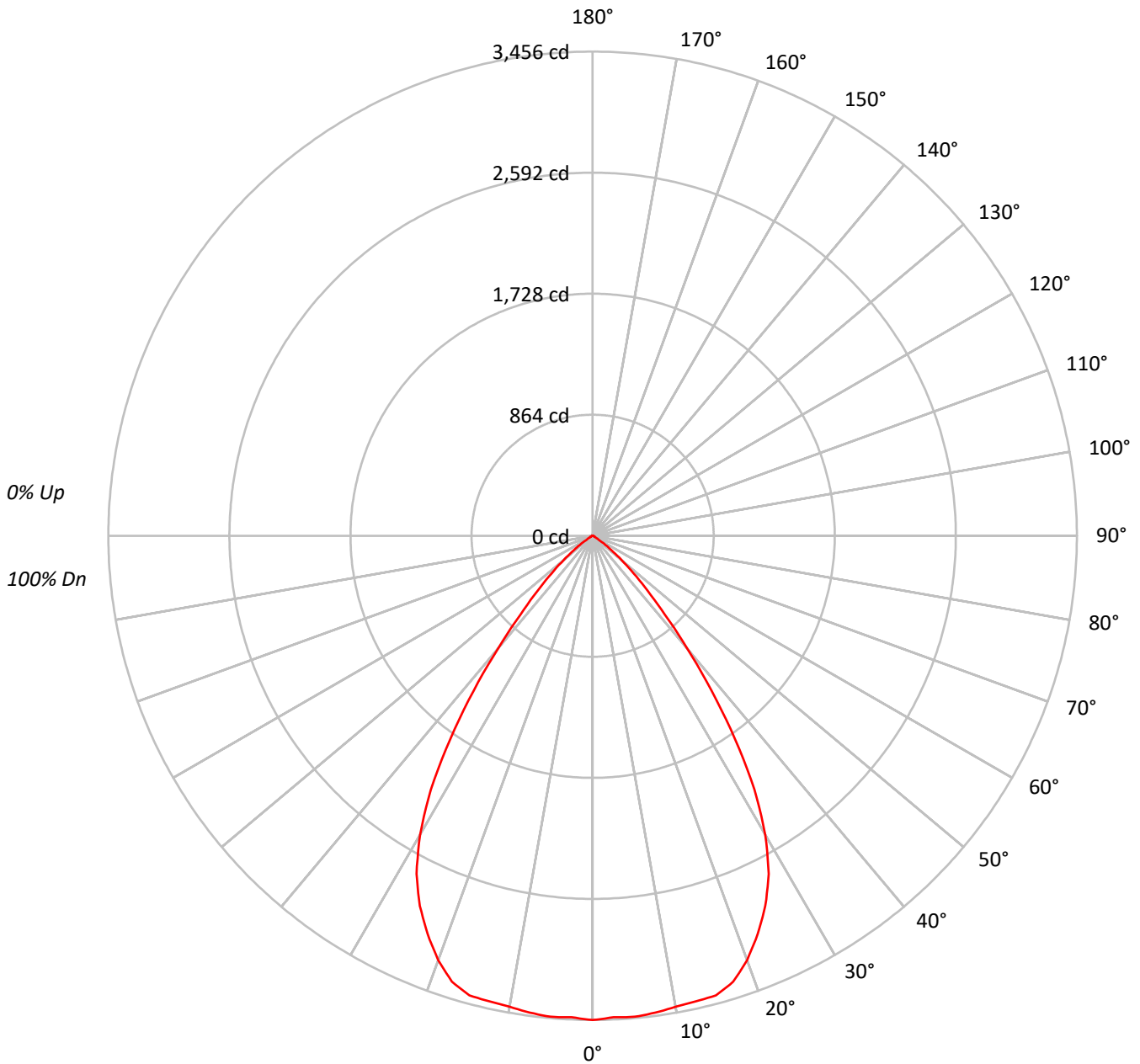
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	426332
5°	426747
10°	427561
15°	433812
20°	423004
25°	396872
30°	351026
35°	266943
40°	168198
45°	96568
50°	51197
55°	21268
60°	5699
65°	4787
70°	3570
75°	3145
80°	2344
85°	4670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	7.7
10°-20°	951.2	22.3
20°-30°	1327.5	31.1
30°-40°	1092.5	25.6
40°-50°	450.0	10.5
50°-60°	101.4	2.4
60°-70°	16.3	0.4
70°-80°	6.1	0.1
80°-90°	2.2	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°	2606.6	61.0
0°-40°	3699.0	86.5
0°-60°	4250.5	99.4
0°-90°	4275.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3456	
5°	3447	328
15°	3397	951
25°	2916	1328
35°	1773	1092
45°	554	450
55°	99	101
65°	16	16
75°	7	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3456.4
2.5°	3440.0
5°	3446.6
7.5°	3433.4
10°	3413.7
12.5°	3403.8
15°	3397.2
17.5°	3337.9
20°	3222.6
22.5°	3077.5
25°	2916.1
27.5°	2721.7
30°	2464.6
32.5°	2148.4
35°	1772.8
37.5°	1393.8
40°	1044.6
42.5°	761.2
45°	553.6
47.5°	395.4
50°	266.8
52.5°	168.1
55°	98.9
57.5°	49.4
60°	23.1
62.5°	19.8
65°	16.4
67.5°	13.2
70°	9.9
72.5°	6.6
75°	6.6
77.5°	3.3
80°	3.3
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)