

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: P581235

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560935-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

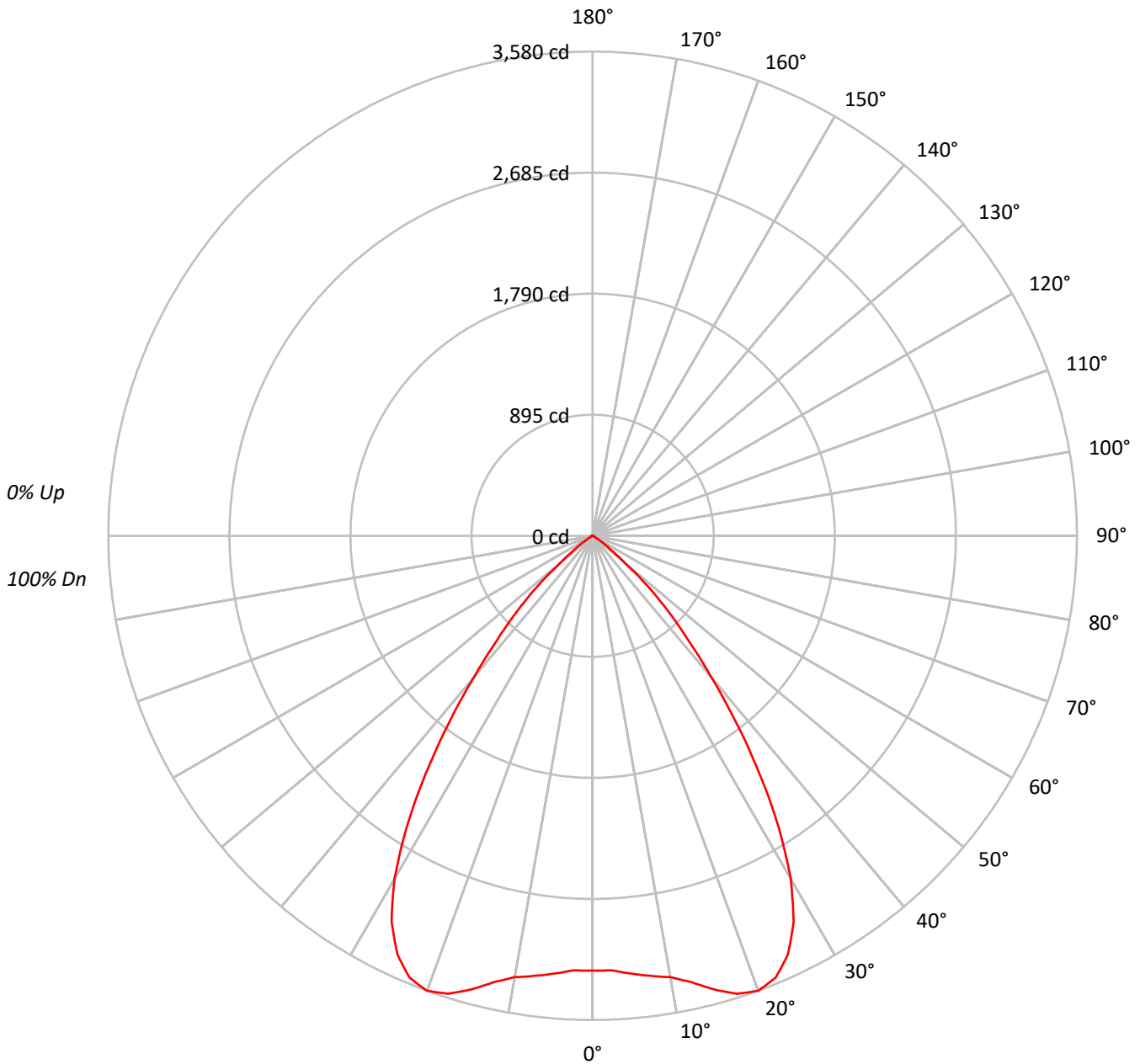
Lumens per Lamp: N/A
Luminaire Lumens: 4909.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	396630
5°	402429
10°	415061
15°	443504
20°	469943
25°	464812
30°	417169
35°	324690
40°	219964
45°	137334
50°	59429
55°	19913
60°	4983
65°	3386
70°	2056
75°	1382
80°	2060
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	6.4
10°-20°	985.9	20.1
20°-30°	1544.8	31.5
30°-40°	1333.2	27.2
40°-50°	613.1	12.5
50°-60°	104.1	2.1
60°-70°	11.8	0.2
70°-80°	4.2	0.1
80°-90°	0.4	0.0
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°	2842.9	57.9
0°-40°	4176.1	85.1
0°-60°	4893.4	99.7
0°-90°	4909.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4909.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3216	
5°	3250	312
15°	3473	986
25°	3415	1545
35°	2156	1333
45°	787	613
55°	93	104
65°	12	12
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3215.6
2.5°	3215.6
5°	3250.2
7.5°	3282.1
10°	3313.9
12.5°	3380.5
15°	3473.1
17.5°	3551.3
20°	3580.2
22.5°	3536.8
25°	3415.3
27.5°	3218.4
30°	2929.0
32.5°	2564.3
35°	2156.3
37.5°	1745.2
40°	1366.1
42.5°	1044.8
45°	787.3
47.5°	552.8
50°	309.7
52.5°	170.8
55°	92.6
57.5°	46.4
60°	20.2
62.5°	14.5
65°	11.6
67.5°	8.7
70°	5.7
72.5°	5.7
75°	2.9
77.5°	2.9
80°	2.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)