

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: P581311

Luminaire Tested: **HC460D010-HM44560835-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560835-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5109.5 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

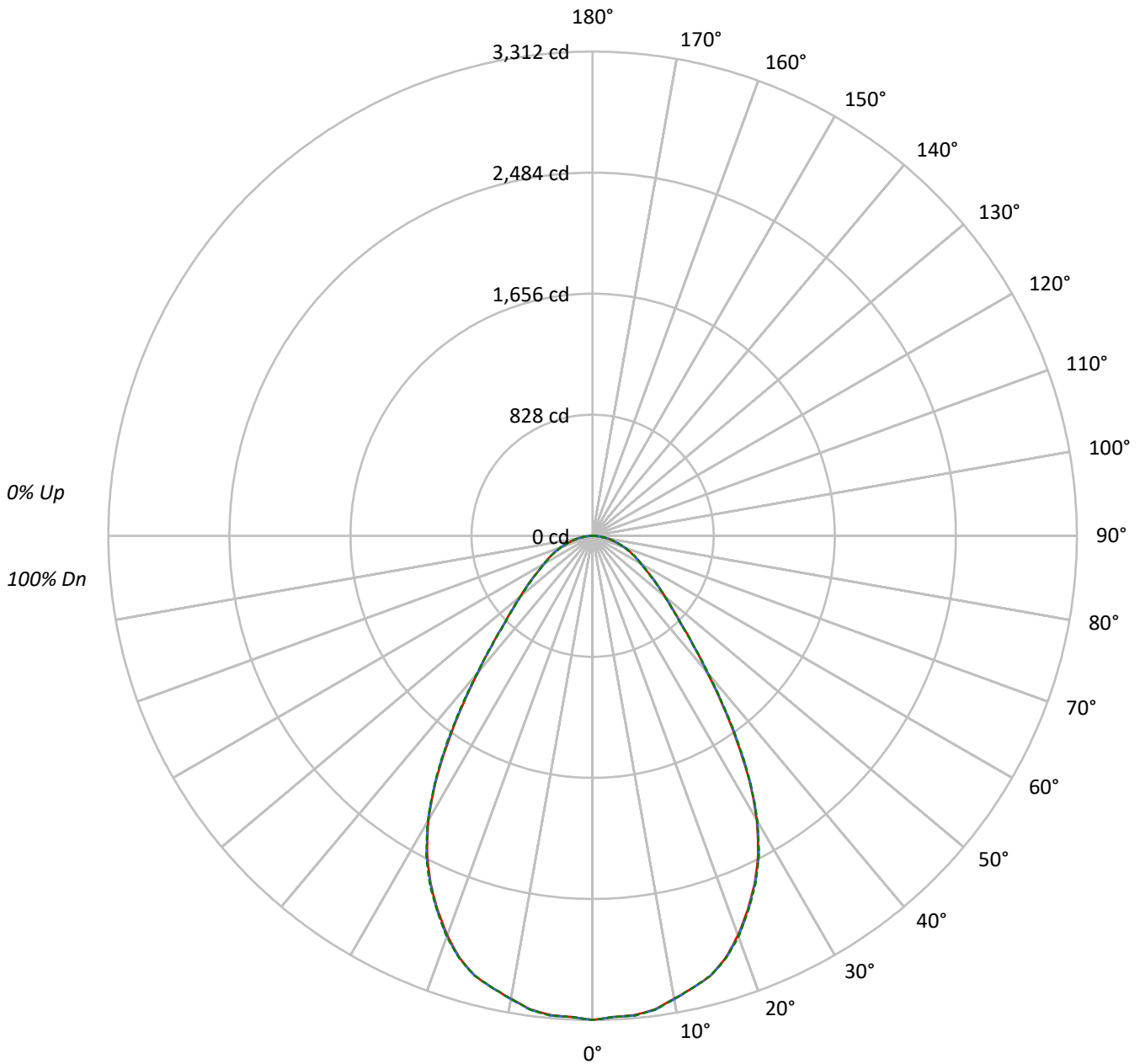
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581311

CATALOG NUMBER: HC460D010-HM44560835-41WDW

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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	408484	408484	408484
5°	407506	407914	407914
10°	402761	403187	402761
15°	397942	397942	397942
20°	381604	382497	382956
25°	356928	357390	358329
30°	319820	320803	320803
35°	259655	261718	262230
40°	195957	197068	197615
45°	150086	149510	149510
50°	123674	123003	123003
55°	106147	105416	105416
60°	94729	93891	93891
65°	89047	89047	89047
70°	82839	82839	82839
75°	75155	76776	75155
80°	70606	68191	70606
85°	58308	58308	58308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	6.1
10°-20°	873.2	17.1
20°-30°	1199.9	23.5
30°-40°	1078.9	21.1
40°-50°	681.7	13.3
50°-60°	445.0	8.7
60°-70°	301.5	5.9
70°-80°	169.7	3.3
80°-90°	47.7	0.9
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°	2385.0	46.7
0°-40°	3463.9	67.8
0°-60°	4590.6	89.8
0°-90°	5109.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5109.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3312	3312	3312	3312	3312	
5°	3291	3291	3294	3294	3294	312
15°	3116	3116	3116	3116	3116	873
25°	2623	2626	2626	2633	2633	1197
35°	1724	1731	1738	1745	1742	1074
45°	860	857	857	857	857	683
55°	494	494	490	494	490	447
65°	305	305	305	305	305	302
75°	158	161	161	161	158	169
85°	41	41	41	41	41	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3311.7	3311.7	3311.7	3311.7	3311.7
2.5°	3294.5	3294.5	3294.5	3294.5	3294.5
5°	3291.2	3291.2	3294.5	3294.5	3294.5
7.5°	3267.1	3270.5	3270.5	3270.5	3270.5
10°	3215.7	3215.7	3219.1	3219.1	3215.7
12.5°	3167.6	3167.6	3167.6	3171.1	3167.6
15°	3116.3	3116.3	3116.3	3116.3	3116.3
17.5°	3027.1	3030.6	3030.6	3030.6	3030.6
20°	2907.2	2914.0	2914.0	2917.5	2917.5
22.5°	2770.0	2773.4	2776.9	2780.3	2776.9
25°	2622.6	2626.0	2626.0	2632.9	2632.9
27.5°	2451.1	2454.6	2461.5	2461.5	2461.5
30°	2245.5	2248.9	2252.4	2252.4	2252.4
32.5°	2002.1	2002.1	2009.0	2012.4	2009.0
35°	1724.4	1731.3	1738.1	1745.0	1741.5
37.5°	1460.4	1467.3	1470.7	1470.7	1474.2
40°	1217.0	1223.9	1223.9	1230.8	1227.3
42.5°	1025.0	1021.6	1021.6	1028.5	1025.0
45°	860.4	857.1	857.1	857.1	857.1
47.5°	740.5	737.0	737.0	737.0	737.0
50°	644.5	641.0	641.0	641.0	641.0
52.5°	565.7	562.2	562.2	562.2	558.8
55°	493.6	493.6	490.2	493.6	490.2
57.5°	428.5	428.5	428.5	428.5	428.5
60°	384.0	380.6	380.6	380.6	380.6
62.5°	342.8	342.8	342.8	342.8	342.8
65°	305.1	305.1	305.1	305.1	305.1
67.5°	267.4	264.0	267.4	267.4	264.0
70°	229.7	226.3	229.7	229.7	229.7
72.5°	192.0	192.0	192.0	195.4	192.0
75°	157.7	161.1	161.1	161.1	157.7
77.5°	126.9	130.3	126.9	126.9	126.9
80°	99.4	96.0	96.0	96.0	99.4
82.5°	68.6	68.6	68.6	68.6	68.6
85°	41.2	41.2	41.2	41.2	41.2
87.5°	17.1	17.1	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)