

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: P581401

Luminaire Tested: **HC460D010-HM44560940-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581401
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-HM44560940-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4450.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

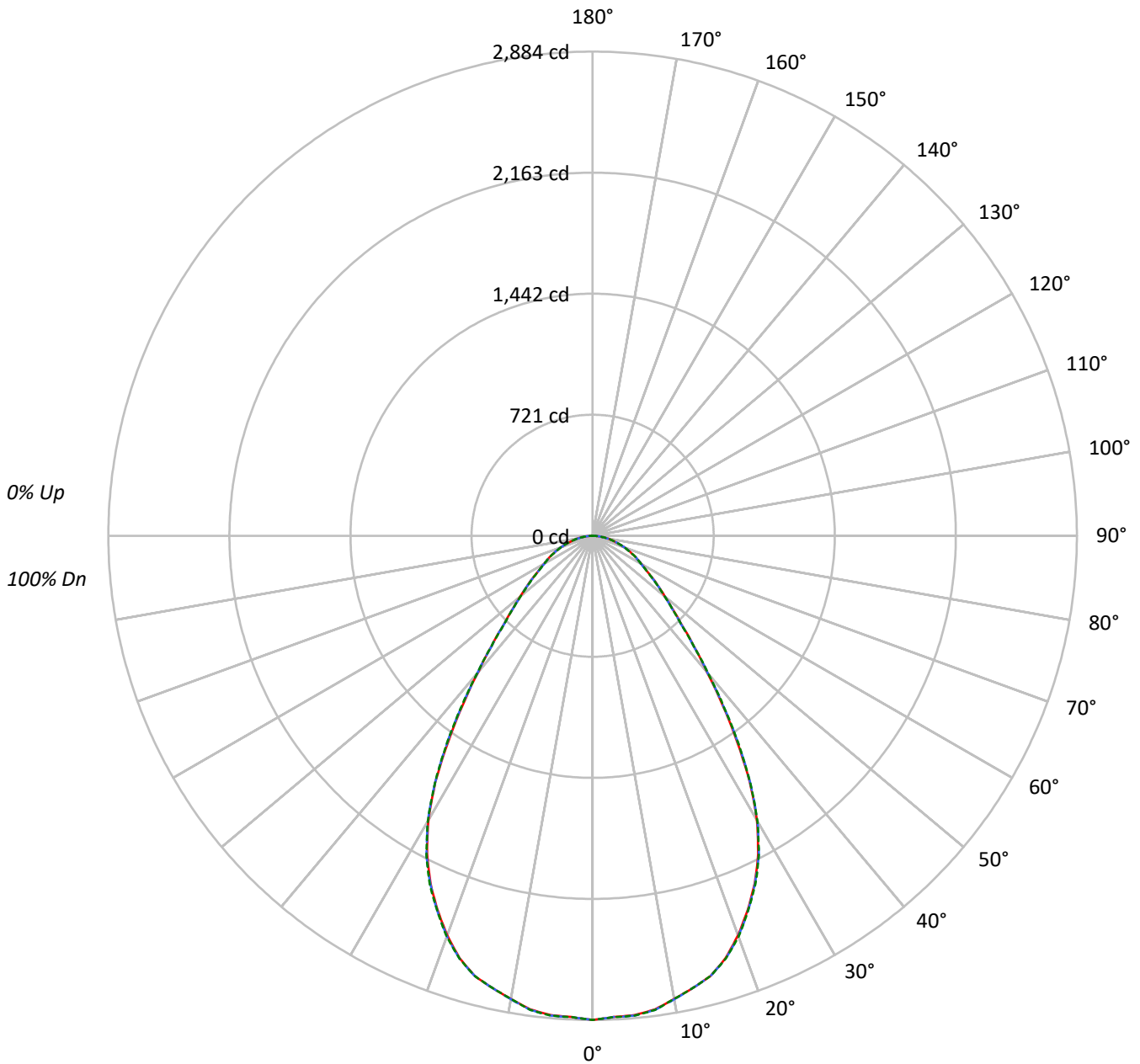
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	355753	355753	355753
5°	354884	355268	355268
10°	350771	351134	350771
15°	346569	346569	346569
20°	332341	333129	333510
25°	310859	311253	312070
30°	278531	279385	279385
35°	226137	227944	228380
40°	170661	171611	172110
45°	130723	130200	130200
50°	107709	107152	107152
55°	92470	91803	91803
60°	82518	81753	81753
65°	77577	77577	77577
70°	72128	72128	72128
75°	65481	66863	65481
80°	61514	59383	61514
85°	50807	50807	50807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	6.1
10°-20°	760.5	17.1
20°-30°	1045.0	23.5
30°-40°	939.6	21.1
40°-50°	593.7	13.3
50°-60°	387.6	8.7
60°-70°	262.6	5.9
70°-80°	147.8	3.3
80°-90°	41.5	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°	2077.2	46.7
0°-40°	3016.7	67.8
0°-60°	3998.1	89.8
0°-90°	4450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2866	2866	2869	2869	2869	272
15°	2714	2714	2714	2714	2714	760
25°	2284	2287	2287	2293	2293	1042
35°	1502	1508	1514	1520	1517	935
45°	749	746	746	746	746	594
55°	430	430	427	430	427	389
65°	266	266	266	266	266	263
75°	137	140	140	140	137	147
85°	36	36	36	36	36	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2884.2	2884.2	2884.2	2884.2	2884.2
2.5°	2869.3	2869.3	2869.3	2869.3	2869.3
5°	2866.2	2866.2	2869.3	2869.3	2869.3
7.5°	2845.4	2848.3	2848.3	2848.3	2848.3
10°	2800.6	2800.6	2803.5	2803.5	2800.6
12.5°	2758.7	2758.7	2758.7	2761.8	2758.7
15°	2714.0	2714.0	2714.0	2714.0	2714.0
17.5°	2636.4	2639.3	2639.3	2639.3	2639.3
20°	2531.9	2537.9	2537.9	2540.8	2540.8
22.5°	2412.5	2415.4	2418.4	2421.4	2418.4
25°	2284.1	2287.0	2287.0	2293.0	2293.0
27.5°	2134.7	2137.8	2143.8	2143.8	2143.8
30°	1955.6	1958.7	1961.6	1961.6	1961.6
32.5°	1743.7	1743.7	1749.6	1752.6	1749.6
35°	1501.8	1507.8	1513.8	1519.8	1516.7
37.5°	1271.9	1277.9	1280.8	1280.8	1283.9
40°	1059.9	1065.8	1065.8	1071.8	1068.9
42.5°	892.7	889.8	889.8	895.7	892.7
45°	749.4	746.4	746.4	746.4	746.4
47.5°	644.9	641.9	641.9	641.9	641.9
50°	561.3	558.4	558.4	558.4	558.4
52.5°	492.6	489.7	489.7	489.7	486.6
55°	430.0	430.0	426.9	430.0	426.9
57.5°	373.3	373.3	373.3	373.3	373.3
60°	334.5	331.4	331.4	331.4	331.4
62.5°	298.6	298.6	298.6	298.6	298.6
65°	265.8	265.8	265.8	265.8	265.8
67.5°	232.9	229.9	232.9	232.9	229.9
70°	200.0	197.1	200.0	200.0	200.0
72.5°	167.2	167.2	167.2	170.2	167.2
75°	137.4	140.3	140.3	140.3	137.4
77.5°	110.4	113.5	110.4	110.4	110.4
80°	86.6	83.6	83.6	83.6	86.6
82.5°	59.7	59.7	59.7	59.7	59.7
85°	35.9	35.9	35.9	35.9	35.9
87.5°	14.9	14.9	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)