

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: P581383

Luminaire Tested: **HC460D010-HM44560935-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581383
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-HM44560935-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4485.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

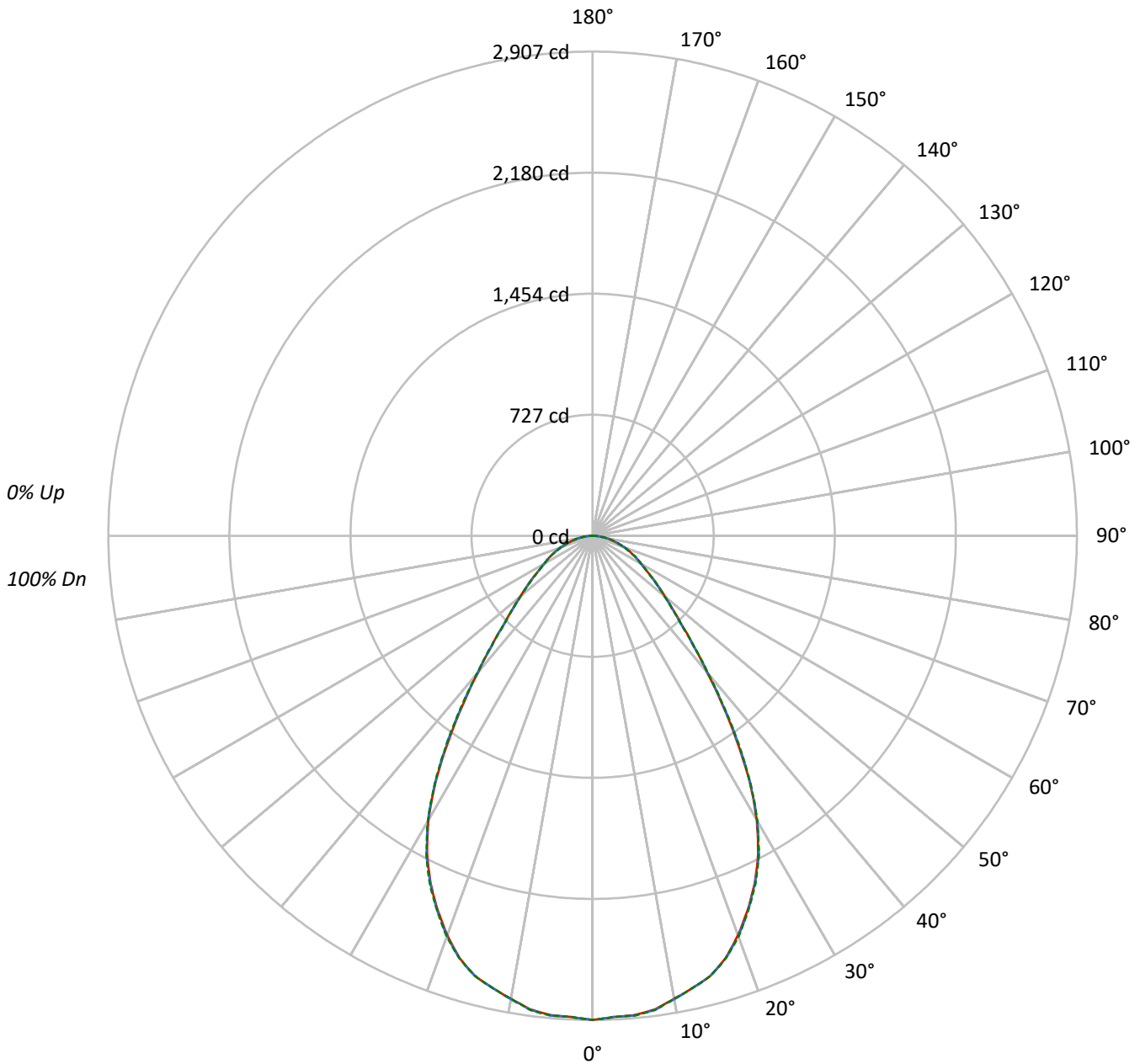
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
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°	358553	358553	358553
5°	357682	358066	358066
10°	353526	353902	353526
15°	349289	349289	349289
20°	334954	335728	336135
25°	313295	313717	314520
30°	280724	281579	281579
35°	227929	229721	230187
40°	171998	172980	173447
45°	131752	131229	131229
50°	108553	107997	107997
55°	93180	92535	92535
60°	83135	82395	82395
65°	78160	78160	78160
70°	72705	72705	72705
75°	65957	67435	65957
80°	62011	59880	62011
85°	51090	51090	51090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	6.1
10°-20°	766.4	17.1
20°-30°	1053.2	23.5
30°-40°	947.0	21.1
40°-50°	598.4	13.3
50°-60°	390.7	8.7
60°-70°	264.7	5.9
70°-80°	149.0	3.3
80°-90°	41.8	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°	2093.5	46.7
0°-40°	3040.4	67.8
0°-60°	4029.5	89.8
0°-90°	4485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2907	2907	2907	2907	2907	
5°	2889	2889	2892	2892	2892	274
15°	2735	2735	2735	2735	2735	766
25°	2302	2305	2305	2311	2311	1051
35°	1514	1520	1526	1532	1529	942
45°	755	752	752	752	752	599
55°	433	433	430	433	430	392
65°	268	268	268	268	268	265
75°	138	142	142	142	138	148
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°	2906.9	2906.9	2906.9	2906.9	2906.9
2.5°	2891.9	2891.9	2891.9	2891.9	2891.9
5°	2888.8	2888.8	2891.9	2891.9	2891.9
7.5°	2867.7	2870.8	2870.8	2870.8	2870.8
10°	2822.6	2822.6	2825.6	2825.6	2822.6
12.5°	2780.5	2780.5	2780.5	2783.5	2780.5
15°	2735.3	2735.3	2735.3	2735.3	2735.3
17.5°	2657.1	2660.0	2660.0	2660.0	2660.0
20°	2551.8	2557.7	2557.7	2560.8	2560.8
22.5°	2431.4	2434.4	2437.4	2440.4	2437.4
25°	2302.0	2305.1	2305.1	2311.0	2311.0
27.5°	2151.5	2154.6	2160.6	2160.6	2160.6
30°	1971.0	1974.0	1977.0	1977.0	1977.0
32.5°	1757.3	1757.3	1763.4	1766.3	1763.4
35°	1513.7	1519.6	1525.6	1531.7	1528.7
37.5°	1281.9	1288.0	1290.9	1290.9	1293.9
40°	1068.2	1074.3	1074.3	1080.3	1077.2
42.5°	899.7	896.8	896.8	902.7	899.7
45°	755.3	752.3	752.3	752.3	752.3
47.5°	650.0	647.0	647.0	647.0	647.0
50°	565.7	562.8	562.8	562.8	562.8
52.5°	496.5	493.5	493.5	493.5	490.5
55°	433.3	433.3	430.3	433.3	430.3
57.5°	376.2	376.2	376.2	376.2	376.2
60°	337.0	334.0	334.0	334.0	334.0
62.5°	301.0	301.0	301.0	301.0	301.0
65°	267.8	267.8	267.8	267.8	267.8
67.5°	234.7	231.7	234.7	234.7	231.7
70°	201.6	198.6	201.6	201.6	201.6
72.5°	168.5	168.5	168.5	171.6	168.5
75°	138.4	141.5	141.5	141.5	138.4
77.5°	111.3	114.4	111.3	111.3	111.3
80°	87.3	84.3	84.3	84.3	87.3
82.5°	60.2	60.2	60.2	60.2	60.2
85°	36.1	36.1	36.1	36.1	36.1
87.5°	15.0	15.0	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)