

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: P580164

Luminaire Tested: **HC425D010-HM40525835-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525835-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH 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: 2504.4 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

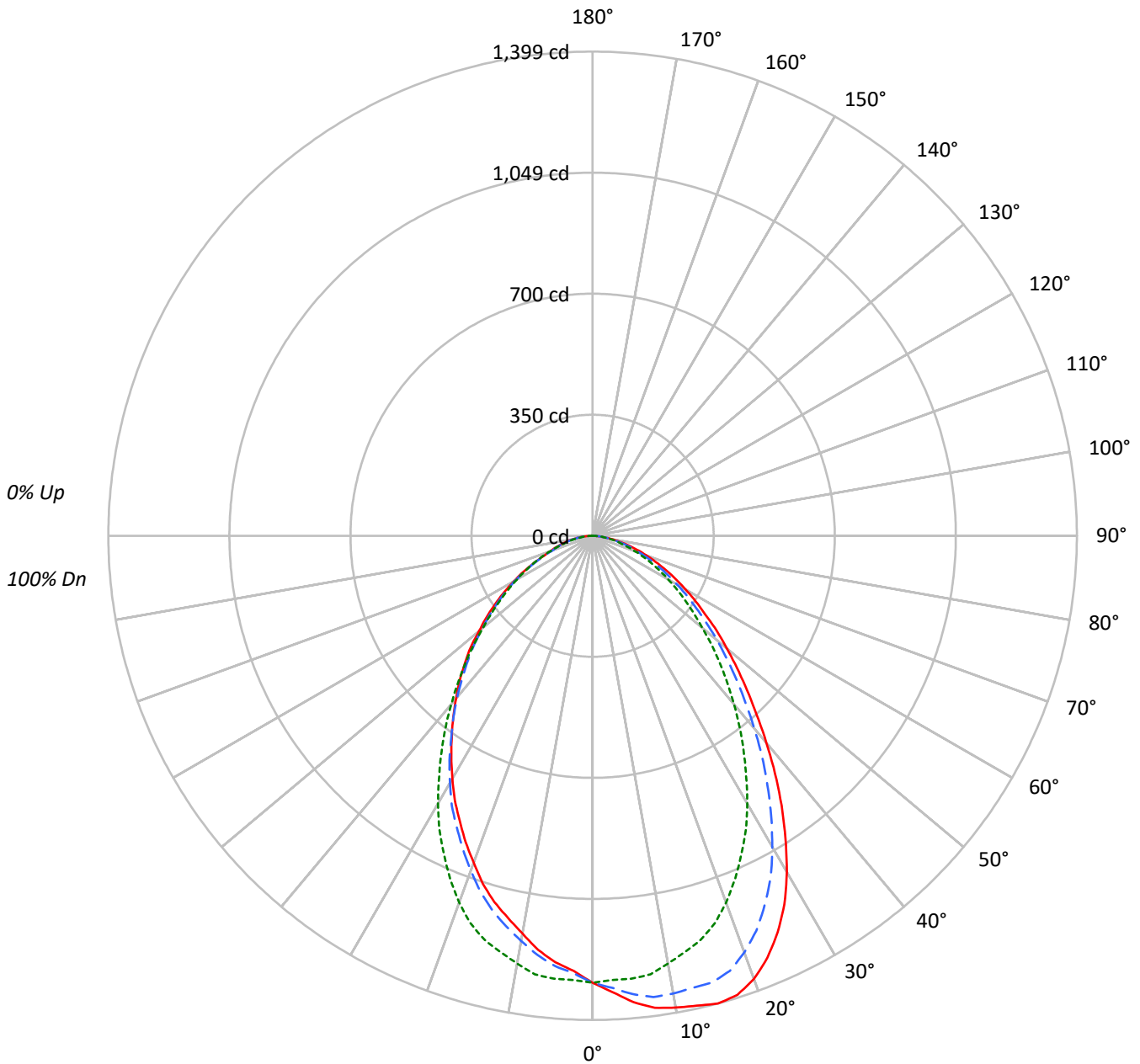
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	159289	159289	159289
5°	167487	159067	153124
10°	173369	157174	146165
15°	178673	154322	139930
20°	178870	147971	131865
25°	172135	138302	123630
30°	159846	127259	115452
35°	143274	114574	106835
40°	125722	102229	98767
45°	109895	90515	91091
50°	97020	79213	82072
55°	85567	70234	73782
60°	76474	62166	64608
65°	67741	54665	54665
70°	59217	46631	46631
75°	50564	39508	44226
80°	39991	35303	39991
85°	25899	30569	37504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.9
10°-20°	344.6	13.8
20°-30°	482.7	19.3
30°-40°	497.3	19.9
40°-50°	423.4	16.9
50°-60°	313.7	12.5
60°-70°	196.9	7.9
70°-80°	97.8	3.9
80°-90°	25.7	1.0
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°	949.6	37.9
0°-40°	1446.9	57.8
0°-60°	2184.1	87.2
0°-90°	2504.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1291	1291	1291	1291	1291	
5°	1353	1330	1285	1248	1237	130
15°	1399	1336	1208	1121	1096	393
25°	1265	1177	1016	928	908	578
35°	952	880	761	711	710	593
45°	630	587	519	509	522	489
55°	398	366	327	333	343	360
65°	232	209	187	184	187	231
75°	106	94	83	90	93	113
85°	18	18	22	25	26	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1319.6	1314.6	1307.9	1296.3	1284.7	1274.8	1264.8	1259.9	1258.3
5°	1352.7	1342.7	1329.5	1307.9	1284.7	1264.8	1248.2	1240.0	1236.7
7.5°	1375.9	1366.0	1344.4	1311.2	1278.1	1248.2	1221.7	1210.2	1206.8
10°	1384.2	1372.6	1342.7	1298.0	1254.9	1218.4	1188.6	1173.7	1167.0
12.5°	1390.8	1375.9	1337.8	1284.7	1231.7	1186.9	1155.4	1135.5	1130.6
15°	1399.2	1382.6	1336.2	1271.5	1208.5	1155.4	1120.6	1102.4	1095.8
17.5°	1390.8	1372.6	1317.9	1244.9	1173.7	1115.7	1077.5	1060.9	1054.3
20°	1362.7	1342.7	1281.4	1203.5	1127.3	1067.6	1029.4	1012.8	1004.6
22.5°	1319.6	1298.0	1235.0	1152.1	1074.2	1016.2	979.7	963.1	958.2
25°	1264.8	1243.3	1177.0	1092.4	1016.2	959.9	928.4	913.4	908.4
27.5°	1200.2	1178.7	1114.0	1031.1	958.2	905.1	880.3	865.4	862.0
30°	1122.3	1100.8	1037.8	961.5	893.5	843.8	823.9	812.3	810.6
32.5°	1036.1	1017.8	959.9	890.2	825.5	784.1	769.2	760.9	759.3
35°	951.5	931.7	880.3	817.3	760.9	724.5	711.2	709.5	709.5
37.5°	865.4	845.4	804.0	745.9	697.9	664.8	659.8	661.5	661.5
40°	780.8	762.5	726.1	678.0	634.9	610.0	608.4	611.7	613.4
42.5°	701.2	686.3	653.1	611.7	575.2	555.4	557.0	563.6	568.6
45°	630.0	616.7	586.9	550.4	518.9	504.0	509.0	517.2	522.2
47.5°	565.3	553.7	525.5	492.4	465.8	455.9	462.6	472.5	479.0
50°	505.6	495.6	469.1	434.3	412.8	406.1	414.5	424.4	427.7
52.5°	452.6	442.6	414.5	384.5	368.1	364.7	373.0	381.3	386.2
55°	397.9	389.6	366.4	339.8	326.6	324.9	333.2	339.8	343.1
57.5°	353.2	344.8	323.2	300.1	288.5	286.8	295.1	300.1	301.7
60°	310.0	301.7	281.8	260.2	252.0	252.0	257.0	260.2	261.9
62.5°	270.2	261.9	243.6	225.5	218.8	218.8	218.8	220.5	225.5
65°	232.1	225.5	208.9	192.3	187.3	184.0	184.0	184.0	187.3
67.5°	197.2	190.7	177.4	162.5	157.5	152.5	150.8	154.2	154.2
70°	164.2	159.2	145.9	134.2	129.3	124.3	122.7	129.3	129.3
72.5°	134.2	129.3	121.0	109.4	104.4	102.7	106.1	109.4	111.1
75°	106.1	101.2	94.5	87.8	82.9	84.6	89.5	91.2	92.8
77.5°	79.6	77.9	71.2	66.3	66.3	68.0	71.2	74.6	76.2
80°	56.3	54.8	51.4	48.1	49.7	53.1	54.8	58.0	56.3
82.5°	34.8	34.8	33.2	33.2	34.8	38.2	39.7	41.4	43.1
85°	18.3	18.3	18.3	19.9	21.6	23.3	24.8	26.5	26.5
87.5°	5.0	6.7	6.7	8.2	9.9	9.9	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)