

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: P582026

Luminaire Tested: **HC625D010-HM60525835-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525835-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2702.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

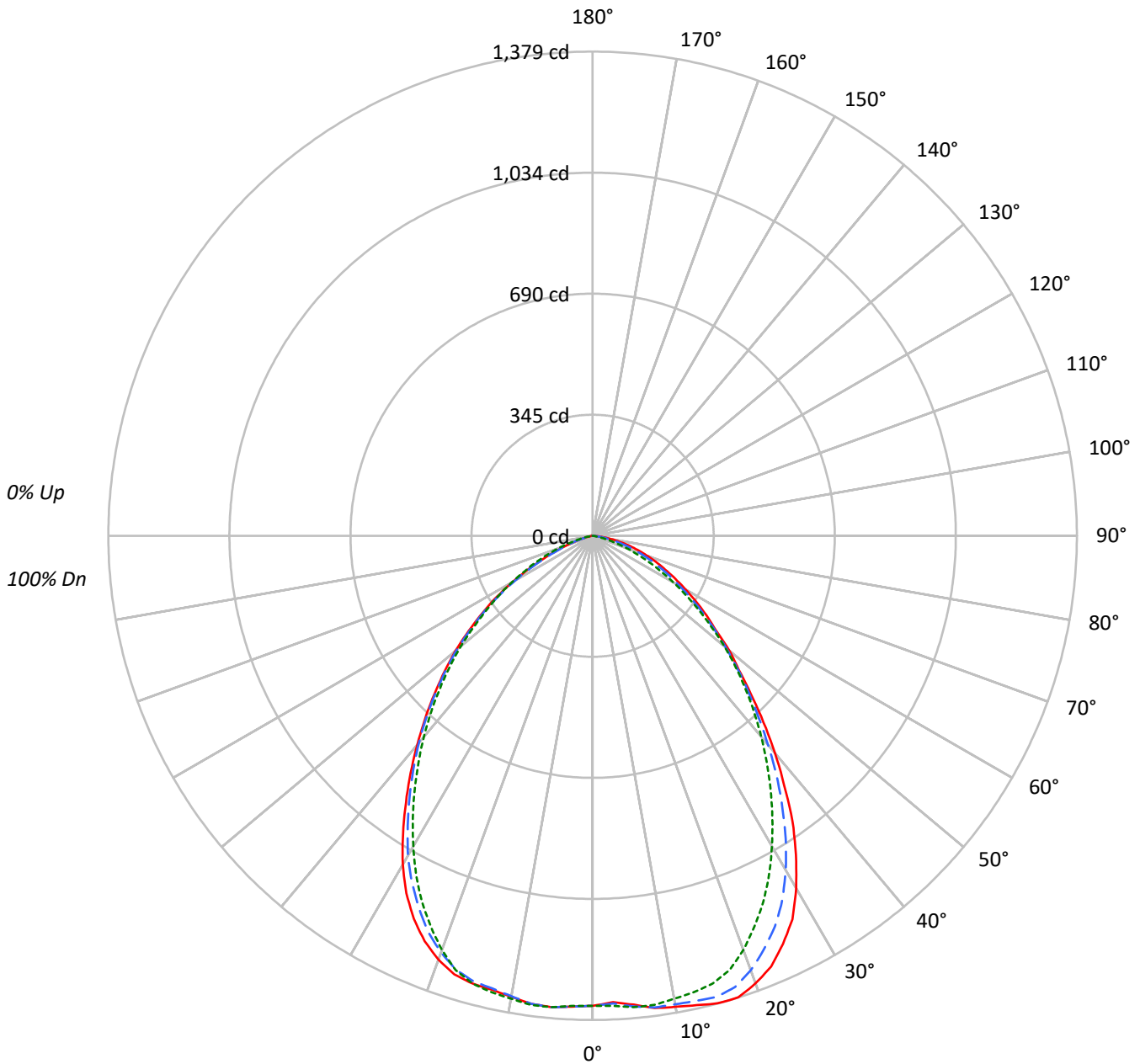
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	73388	73388	73388
5°	73767	74163	74163
10°	75834	74520	74214
15°	78241	74944	74944
20°	79148	73232	74918
25°	77569	69560	72851
30°	73366	64643	68435
35°	66408	59120	62024
40°	57765	53479	55561
45°	49354	47679	49354
50°	43308	41773	43470
55°	37791	35201	36587
60°	33407	29230	28835
65°	29640	23063	19769
70°	26174	16285	11925
75°	22303	9214	5761
80°	16606	2841	1705
85°	9120	1132	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	4.8
10°-20°	375.7	13.9
20°-30°	548.7	20.3
30°-40°	575.5	21.3
40°-50°	484.8	17.9
50°-60°	339.7	12.6
60°-70°	182.1	6.7
70°-80°	61.1	2.3
80°-90°	6.6	0.2
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°	1052.8	39.0
0°-40°	1628.3	60.2
0°-60°	2452.8	90.8
0°-90°	2702.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1339	1339	1339	1339	1339	
5°	1340	1346	1348	1348	1348	129
15°	1379	1360	1320	1313	1320	389
25°	1282	1228	1150	1170	1204	587
35°	992	941	883	909	927	616
45°	637	626	615	631	637	496
55°	395	383	368	376	383	356
65°	228	209	178	147	152	228
75°	105	82	44	27	27	112
85°	14	7	2	2	2	20
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°	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7
2.5°	1329.6	1329.6	1333.2	1336.8	1340.5	1340.5	1342.3	1344.1	1342.3
5°	1340.5	1340.5	1346.0	1347.7	1347.7	1346.0	1347.7	1347.7	1347.7
7.5°	1356.7	1353.1	1355.0	1351.4	1347.7	1346.0	1344.1	1344.1	1344.1
10°	1362.3	1358.6	1355.0	1347.7	1338.7	1333.2	1331.4	1333.2	1333.2
12.5°	1369.5	1365.9	1356.7	1342.3	1331.4	1322.3	1320.5	1324.2	1324.2
15°	1378.6	1374.9	1360.4	1336.8	1320.5	1311.4	1313.3	1316.9	1320.5
17.5°	1378.6	1371.3	1347.7	1316.9	1297.0	1287.8	1295.1	1304.2	1309.6
20°	1356.7	1349.5	1316.9	1278.8	1255.3	1249.7	1262.5	1278.8	1284.2
22.5°	1327.8	1313.3	1275.2	1229.8	1204.4	1204.4	1222.6	1242.5	1249.7
25°	1282.4	1271.5	1228.1	1175.4	1150.0	1148.2	1169.9	1197.1	1204.4
27.5°	1231.7	1217.2	1169.9	1115.5	1088.4	1090.1	1113.8	1141.0	1148.2
30°	1159.0	1141.0	1099.3	1046.6	1021.2	1028.5	1052.0	1072.1	1081.1
32.5°	1077.5	1061.2	1023.1	974.1	952.3	959.5	979.5	997.6	1004.9
35°	992.3	974.1	941.4	897.9	883.4	890.6	908.8	923.3	926.8
37.5°	896.0	883.4	859.8	825.4	814.4	823.5	838.0	847.2	850.7
40°	807.2	796.3	776.4	750.9	747.3	754.6	769.1	774.5	776.4
42.5°	720.1	711.1	698.3	680.3	680.3	687.5	700.2	703.8	705.6
45°	636.6	631.3	625.7	611.3	615.0	624.0	631.3	636.6	636.6
47.5°	564.1	566.0	558.7	547.8	551.4	560.5	566.0	571.4	571.4
50°	507.8	502.5	495.2	484.3	489.8	497.1	504.2	507.8	509.7
52.5°	442.6	440.8	435.3	422.6	426.3	429.9	437.2	442.6	444.4
55°	395.4	389.9	382.8	368.3	368.3	371.9	375.5	379.2	382.8
57.5°	350.1	344.7	333.8	317.4	315.6	315.6	313.8	317.4	322.9
60°	304.7	303.0	286.6	272.0	266.6	261.3	254.0	255.7	263.0
62.5°	264.9	261.3	246.7	228.5	217.6	208.6	199.5	197.7	205.0
65°	228.5	224.9	208.6	190.5	177.8	161.4	147.0	147.0	152.4
67.5°	195.8	188.7	174.2	154.1	137.8	117.9	103.4	107.0	108.9
70°	163.3	157.8	141.5	121.5	101.6	81.6	72.5	74.4	74.4
72.5°	134.2	126.9	110.6	90.7	70.8	52.6	49.0	47.1	47.1
75°	105.3	98.0	81.6	61.6	43.5	30.8	27.2	27.2	27.2
77.5°	76.2	70.8	56.3	38.1	23.6	14.5	12.7	10.9	10.9
80°	52.6	47.1	34.5	19.9	9.0	5.4	5.4	5.4	5.4
82.5°	30.8	25.4	16.3	9.0	3.6	1.8	1.8	1.8	1.8
85°	14.5	10.9	7.3	3.6	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
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)