

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: P582027

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2711.6 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

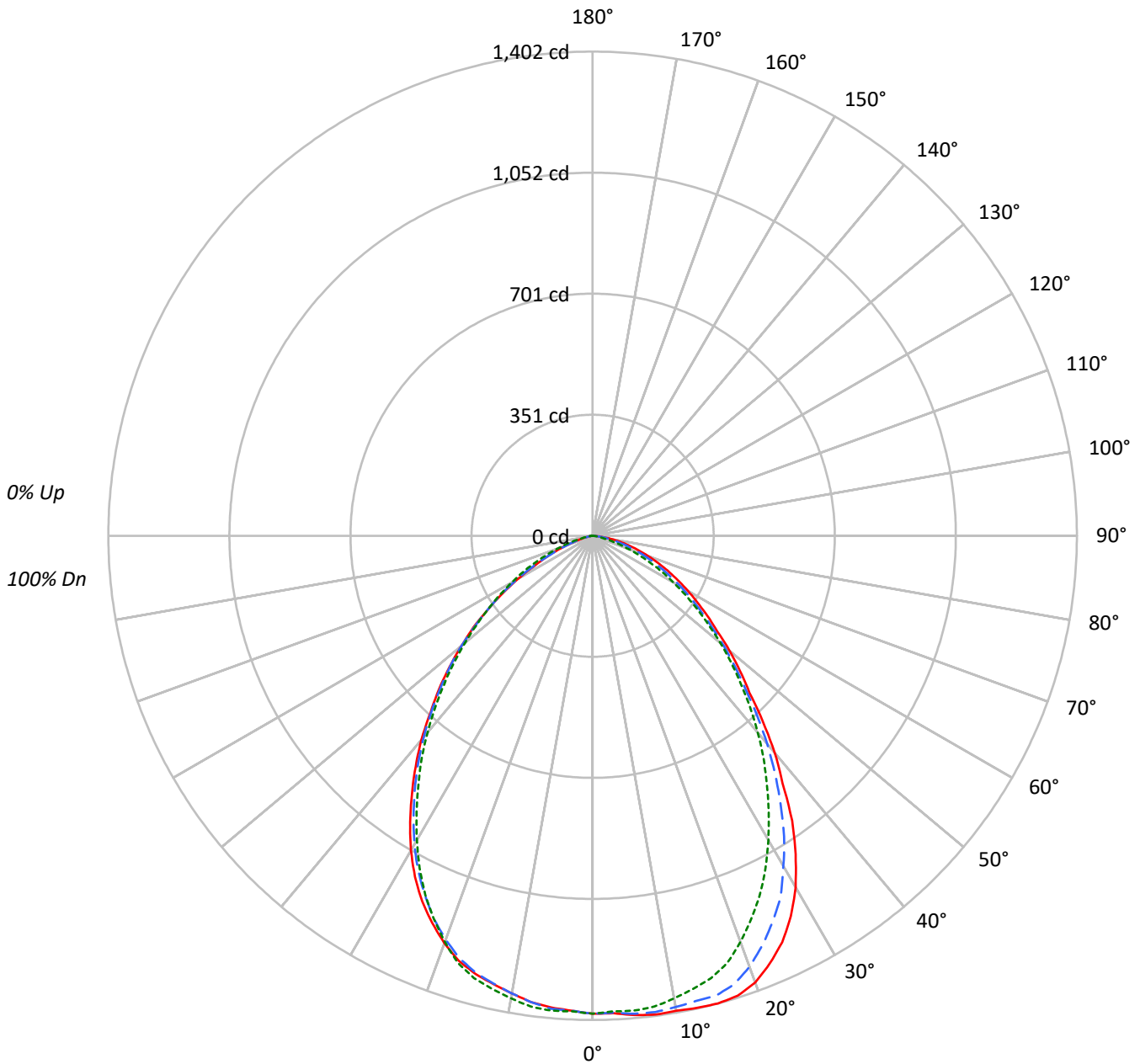
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
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	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	75860	75860	75860
5°	76656	75952	75457
10°	77743	75722	74910
15°	79569	75244	74524
20°	80303	73011	73221
25°	78549	69331	70649
30°	74398	64402	66586
35°	67371	58866	61054
40°	58667	53221	55160
45°	49773	47106	48796
50°	44084	41142	42233
55°	38823	35182	35019
60°	34800	29636	27246
65°	31054	23764	19522
70°	27328	17150	12214
75°	23045	10379	6926
80°	17774	4578	2841
85°	10253	1132	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	4.8
10°-20°	377.5	13.9
20°-30°	545.7	20.1
30°-40°	574.2	21.2
40°-50°	482.7	17.8
50°-60°	338.8	12.5
60°-70°	186.4	6.9
70°-80°	66.2	2.4
80°-90°	8.6	0.3
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°	1054.6	38.9
0°-40°	1628.9	60.1
0°-60°	2450.4	90.4
0°-90°	2711.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1384	1384	1384	1384	1384	
5°	1393	1389	1380	1375	1371	133
15°	1402	1378	1326	1310	1313	396
25°	1299	1233	1146	1148	1168	594
35°	1007	948	880	898	912	624
45°	642	624	608	622	629	504
55°	406	384	368	368	366	366
65°	239	214	183	150	150	238
75°	109	87	49	33	33	117
85°	16	9	2	2	2	22
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°	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8
2.5°	1383.8	1383.8	1382.1	1382.1	1378.4	1378.4	1376.5	1376.5	1376.5
5°	1393.0	1393.0	1389.3	1383.8	1380.2	1374.8	1374.8	1373.0	1371.2
7.5°	1398.3	1396.6	1391.1	1383.8	1374.8	1365.8	1362.1	1363.9	1362.1
10°	1396.6	1393.0	1385.7	1371.2	1360.3	1347.6	1345.7	1344.0	1345.7
12.5°	1400.2	1394.7	1380.2	1362.1	1344.0	1329.4	1327.7	1327.7	1329.4
15°	1402.0	1396.6	1378.4	1351.2	1325.8	1311.3	1309.5	1311.3	1313.1
17.5°	1396.6	1389.3	1362.1	1325.8	1296.9	1282.3	1282.3	1286.0	1289.6
20°	1376.5	1365.8	1327.7	1284.1	1251.5	1240.6	1244.2	1251.5	1255.1
22.5°	1340.3	1327.7	1284.1	1235.1	1200.6	1191.6	1200.6	1209.8	1213.4
25°	1298.6	1284.1	1233.3	1182.6	1146.2	1135.3	1148.1	1162.5	1168.0
27.5°	1242.3	1226.1	1178.9	1120.9	1084.6	1079.2	1093.6	1110.0	1113.7
30°	1175.3	1157.1	1104.5	1050.1	1017.4	1015.7	1032.0	1046.5	1051.9
32.5°	1093.6	1077.3	1032.0	977.6	948.5	948.5	964.9	977.6	983.0
35°	1006.7	988.5	948.5	903.3	879.6	881.5	897.8	906.8	912.3
37.5°	903.3	897.8	867.0	828.9	812.6	816.2	828.9	836.1	841.5
40°	819.8	805.3	785.4	754.6	743.7	747.3	759.9	767.2	770.8
42.5°	729.1	720.1	703.7	682.0	674.7	680.1	691.0	696.4	694.7
45°	642.0	640.3	623.9	611.2	607.6	614.8	622.1	627.5	629.4
47.5°	578.6	571.4	556.8	547.7	544.1	551.3	558.6	562.2	562.2
50°	516.9	509.6	495.2	486.0	482.4	489.7	495.2	498.8	495.2
52.5°	455.2	447.9	435.3	424.4	422.6	426.3	428.0	429.9	433.5
55°	406.2	399.0	384.5	371.8	368.1	370.0	368.1	368.1	366.4
57.5°	359.1	351.8	337.3	322.9	317.4	315.6	310.1	308.4	306.5
60°	317.4	308.4	293.8	277.5	270.3	263.0	253.9	248.5	248.5
62.5°	277.5	268.4	252.1	237.6	226.7	214.0	199.5	192.2	192.2
65°	239.4	232.2	214.0	197.7	183.2	166.9	150.5	146.9	150.5
67.5°	203.1	195.8	177.8	161.4	143.3	123.3	108.8	108.8	112.4
70°	170.5	163.3	146.9	126.9	107.0	87.1	76.2	76.2	76.2
72.5°	139.7	132.4	114.3	96.1	76.2	56.3	50.7	52.6	50.7
75°	108.8	103.4	87.1	67.2	49.0	34.5	32.7	30.8	32.7
77.5°	81.6	76.2	61.6	43.5	27.2	19.9	18.2	18.2	18.2
80°	56.3	50.7	39.8	25.4	14.5	9.0	9.0	9.0	9.0
82.5°	34.5	29.1	21.8	12.7	5.4	5.4	5.4	5.4	5.4
85°	16.3	12.7	9.0	3.6	1.8	1.8	1.8	1.8	1.8
87.5°	3.6	3.6	1.8	1.8	0.0	1.8	1.8	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)