

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: P582034

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2510.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

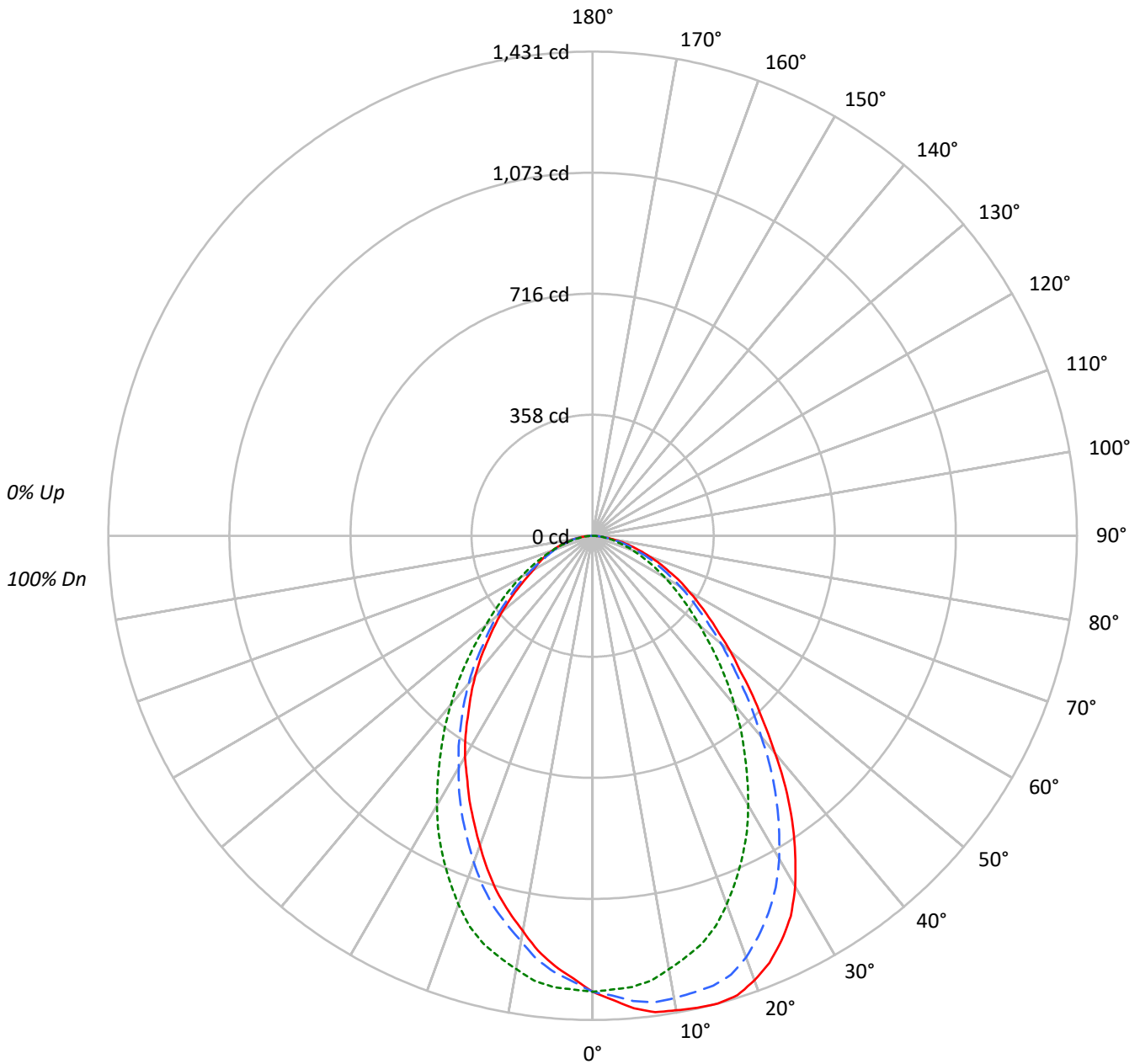
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	73876	73876	73876
5°	77151	73663	70267
10°	79257	72393	66031
15°	81221	70823	61868
20°	81575	67614	56822
25°	79868	63300	52116
30°	75777	58211	47767
35°	68830	52314	42851
40°	59969	46602	38551
45°	51881	40779	33895
50°	45320	35112	29696
55°	40046	30862	25481
60°	35995	27048	22082
65°	32234	23530	21403
70°	28787	20067	20067
75°	24972	16902	18809
80°	20047	14333	17174
85°	13712	12517	14844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	5.0
10°-20°	352.1	14.0
20°-30°	490.7	19.5
30°-40°	505.6	20.1
40°-50°	419.0	16.7
50°-60°	301.1	12.0
60°-70°	191.8	7.6
70°-80°	98.5	3.9
80°-90°	25.1	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°	969.4	38.6
0°-40°	1475.0	58.8
0°-60°	2195.1	87.4
0°-90°	2510.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2510.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1348	1348	1348	1348	1348	
5°	1402	1380	1339	1295	1277	134
15°	1431	1377	1248	1134	1090	403
25°	1320	1230	1046	912	862	605
35°	1028	945	782	678	640	639
45°	669	622	526	459	437	518
55°	419	384	323	287	267	377
65°	248	221	181	158	165	249
75°	118	102	80	83	89	126
85°	22	20	20	22	24	28
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°	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1373.0	1367.5	1360.3	1353.1	1342.2	1329.4	1318.7	1315.0	1309.5
5°	1402.0	1394.8	1380.3	1362.1	1338.6	1315.0	1295.0	1282.3	1276.9
7.5°	1420.2	1411.1	1391.2	1360.3	1325.8	1291.3	1262.4	1244.2	1237.0
10°	1423.8	1414.8	1387.6	1345.8	1300.5	1253.3	1217.0	1195.2	1186.2
12.5°	1429.3	1416.5	1382.1	1333.1	1275.1	1220.7	1175.3	1148.1	1139.1
15°	1431.1	1416.5	1376.7	1316.8	1247.9	1182.6	1133.6	1101.0	1090.1
17.5°	1423.8	1407.5	1360.3	1287.7	1209.8	1140.9	1082.8	1048.4	1033.9
20°	1398.3	1380.3	1325.8	1244.2	1159.0	1086.5	1026.6	990.4	974.0
22.5°	1365.8	1342.2	1280.6	1193.5	1104.5	1028.5	968.6	932.2	915.9
25°	1320.4	1298.6	1229.7	1137.2	1046.5	966.7	912.3	874.2	861.6
27.5°	1267.8	1242.5	1171.7	1079.2	986.7	906.9	854.3	819.8	803.5
30°	1197.1	1173.6	1102.8	1010.3	919.6	845.3	790.8	761.8	754.6
32.5°	1113.7	1093.7	1024.8	937.7	850.7	781.7	736.4	705.6	698.3
35°	1028.5	1004.8	945.0	863.3	781.7	720.1	678.4	651.2	640.3
37.5°	935.9	914.2	863.3	790.8	718.2	660.2	624.0	600.3	589.4
40°	838.0	821.6	774.5	716.5	651.2	600.3	569.5	549.6	538.7
42.5°	747.3	731.0	698.3	643.9	589.4	544.2	516.9	498.8	489.7
45°	669.2	654.8	622.1	575.0	526.0	487.9	458.8	446.2	437.2
47.5°	591.3	584.0	555.0	511.5	466.1	433.5	413.5	399.1	391.8
50°	531.4	522.4	495.2	449.8	411.7	386.3	368.1	355.5	348.2
52.5°	469.7	460.7	435.3	397.2	366.4	342.8	324.7	313.8	306.5
55°	419.0	411.7	384.5	350.1	322.9	302.9	286.6	273.9	266.6
57.5°	371.8	364.6	339.2	306.5	282.9	264.8	250.3	239.4	230.3
60°	328.3	322.9	297.5	266.6	246.7	228.5	215.9	206.7	201.4
62.5°	290.2	279.3	257.5	230.3	212.3	197.7	184.9	179.6	183.2
65°	248.5	243.1	221.3	197.7	181.4	166.9	157.8	161.4	165.0
67.5°	214.0	206.7	188.6	166.9	152.4	141.5	136.1	143.3	145.1
70°	179.6	172.3	156.0	137.8	125.2	117.9	117.9	123.3	125.2
72.5°	147.0	141.5	126.9	112.4	103.4	98.0	101.6	105.3	107.0
75°	117.9	112.4	101.6	88.8	79.8	79.8	83.4	87.1	88.8
77.5°	90.7	87.1	76.2	67.2	63.5	63.5	67.2	68.9	70.8
80°	63.5	59.9	54.4	49.0	45.4	49.0	52.6	52.6	54.4
82.5°	41.7	39.8	36.3	32.7	32.7	34.5	36.3	38.1	38.1
85°	21.8	21.8	19.9	18.2	19.9	21.8	21.8	23.6	23.6
87.5°	7.3	7.3	7.3	7.3	9.0	9.0	9.0	9.0	9.0
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)