

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: P582035

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" 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: 2599.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

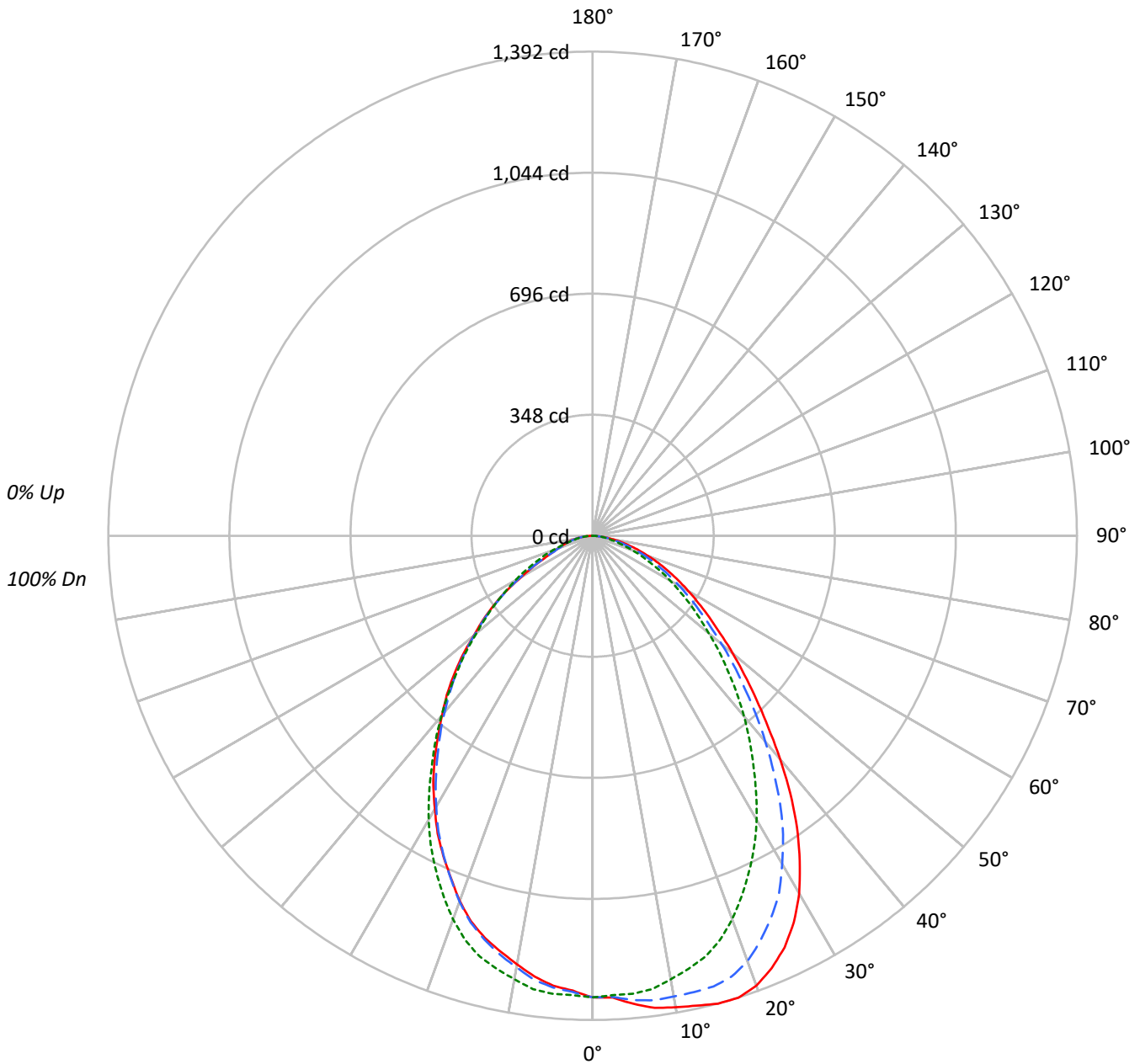
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100																
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87																
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76																
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66																
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58																
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52			52																
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46			46																
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42			42																
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38			38																
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34			34																
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31			31																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	72757	72757	72757
5°	74339	72738	71439
10°	76607	72065	69644
15°	79030	71107	67918
20°	80285	68437	65158
25°	78966	64377	61413
30°	75176	59686	57382
35°	68563	53880	53030
40°	59941	48405	48140
45°	51595	42594	43578
50°	44843	37116	37884
55°	39158	32572	32916
60°	34789	28232	25842
65°	31041	23764	19769
70°	27312	19474	16573
75°	23426	15356	15737
80°	18910	13165	15469
85°	12517	11448	13712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	4.8
10°-20°	357.7	13.8
20°-30°	510.7	19.6
30°-40°	534.9	20.6
40°-50°	450.4	17.3
50°-60°	320.6	12.3
60°-70°	187.6	7.2
70°-80°	88.8	3.4
80°-90°	22.8	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°	994.1	38.2
0°-40°	1529.0	58.8
0°-60°	2300.0	88.5
0°-90°	2599.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1327	1327	1327	1327	1327	
5°	1351	1340	1322	1304	1298	130
15°	1392	1342	1253	1202	1197	393
25°	1306	1213	1064	1014	1015	598
35°	1024	939	805	778	792	636
45°	666	616	549	551	562	517
55°	410	375	341	341	344	369
65°	239	212	183	154	152	239
75°	111	92	72	71	74	119
85°	20	16	18	22	22	26
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°	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2
2.5°	1329.1	1329.1	1327.2	1325.4	1321.8	1316.4	1312.8	1309.1	1309.1
5°	1350.9	1347.2	1340.0	1330.8	1321.8	1310.9	1303.6	1298.2	1298.2
7.5°	1368.9	1361.6	1347.2	1330.8	1314.5	1300.0	1287.3	1280.1	1278.3
10°	1376.2	1367.1	1345.3	1320.0	1294.6	1274.7	1260.1	1251.1	1251.1
12.5°	1383.4	1372.5	1343.6	1307.3	1274.7	1247.5	1233.0	1225.7	1223.9
15°	1392.5	1378.0	1341.7	1296.4	1252.9	1222.1	1202.1	1196.7	1196.7
17.5°	1392.5	1374.4	1329.1	1272.8	1218.4	1184.0	1165.9	1160.4	1162.3
20°	1376.2	1356.2	1301.9	1233.0	1173.1	1136.8	1118.7	1115.0	1116.9
22.5°	1345.3	1321.8	1260.1	1185.8	1120.6	1082.5	1066.2	1066.2	1064.3
25°	1305.5	1280.1	1213.0	1135.1	1064.3	1026.2	1013.6	1015.3	1015.3
27.5°	1252.9	1227.6	1160.4	1077.0	1006.3	968.2	959.2	962.8	964.6
30°	1187.6	1160.4	1089.7	1008.2	942.9	904.8	899.3	904.8	906.5
32.5°	1107.8	1087.9	1018.9	935.6	874.0	841.3	839.5	844.9	852.2
35°	1024.5	1002.7	939.2	863.1	805.1	777.9	777.9	786.9	792.4
37.5°	933.7	912.1	854.0	790.5	741.5	716.2	719.8	728.9	730.7
40°	837.6	821.3	772.3	718.0	676.4	656.3	661.8	670.9	672.7
42.5°	747.0	732.5	692.7	643.7	612.8	598.3	605.6	616.5	620.1
45°	665.5	649.1	616.5	574.8	549.4	542.2	551.2	558.5	562.1
47.5°	591.0	576.6	549.4	511.3	493.2	489.5	498.6	502.2	505.8
50°	525.8	511.3	484.2	449.7	435.2	435.2	442.4	446.1	444.2
52.5°	462.4	449.7	424.3	395.3	386.2	386.2	391.7	393.4	397.1
55°	409.7	397.1	375.3	348.1	340.8	337.3	340.8	340.8	344.4
57.5°	360.9	350.0	330.0	304.6	295.6	291.9	290.1	288.3	291.9
60°	317.3	308.2	286.4	264.8	257.5	248.3	241.2	233.9	235.7
62.5°	277.4	268.4	248.3	226.7	219.4	206.7	197.6	188.6	192.2
65°	239.3	230.3	212.1	194.0	183.2	168.7	154.1	148.7	152.4
67.5°	204.9	197.6	179.6	161.4	152.4	136.0	121.5	121.5	123.3
70°	170.4	163.1	148.7	132.3	121.5	107.0	101.5	103.4	103.4
72.5°	139.6	134.2	119.7	105.1	94.2	85.2	85.2	87.1	88.8
75°	110.6	107.0	92.5	79.8	72.5	67.0	70.7	72.5	74.3
77.5°	85.2	79.8	68.9	59.9	54.4	56.3	59.9	61.6	63.4
80°	59.9	58.0	49.0	43.5	41.7	43.5	47.1	49.0	49.0
82.5°	38.1	36.2	30.8	29.1	29.1	30.8	34.5	34.5	34.5
85°	19.9	18.2	16.3	16.3	18.2	19.9	21.8	21.8	21.8
87.5°	7.3	5.4	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)