

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: P582125

Luminaire Tested: **HC625D010-HM60525940-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582125
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-HM60525940-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2337.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

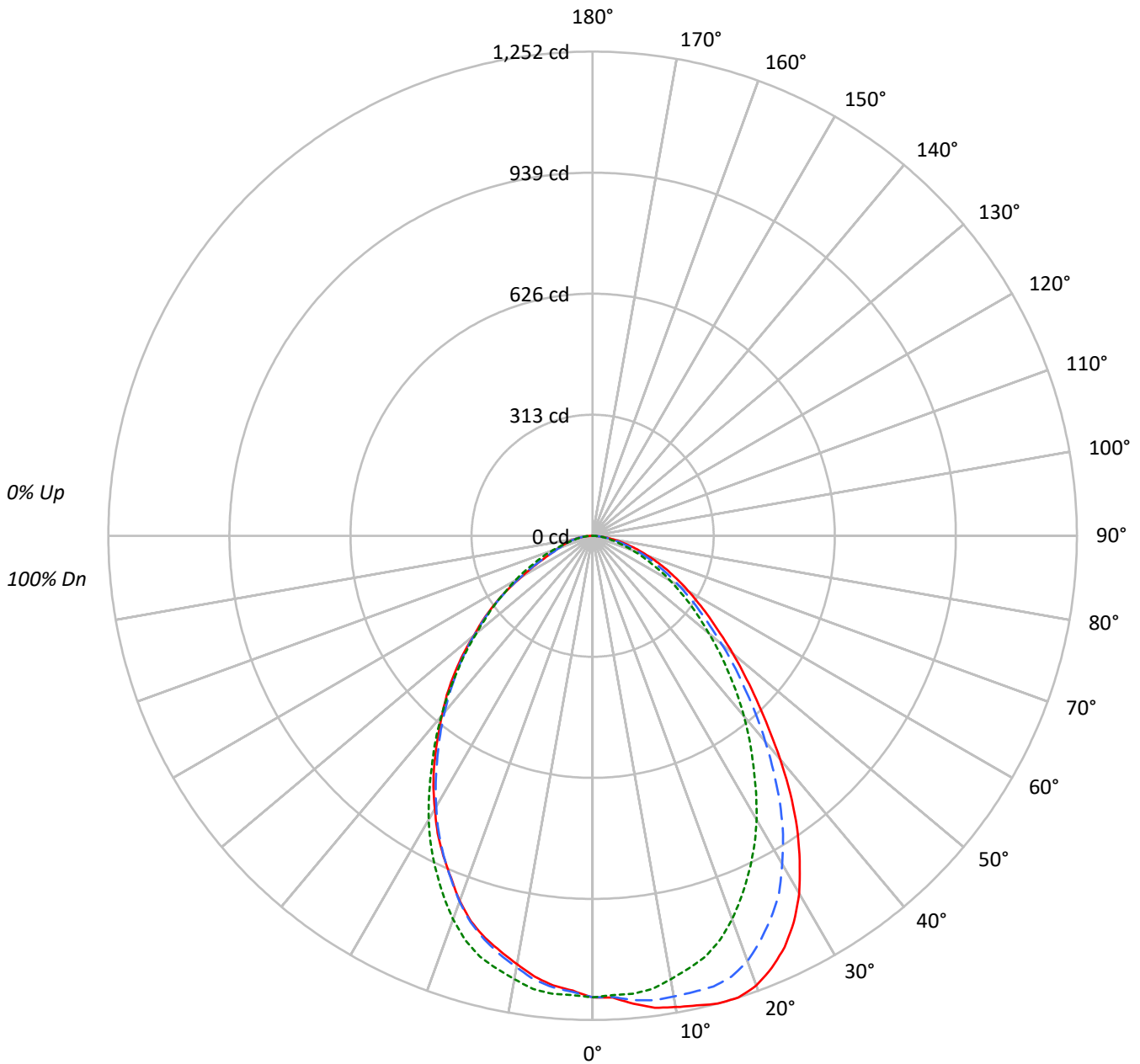
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	65433	65433	65433
5°	66850	65414	64247
10°	68892	64806	62630
15°	71067	63945	61079
20°	72200	61547	58595
25°	71018	57899	55231
30°	67612	53673	51609
35°	61656	48452	47689
40°	53908	43524	43288
45°	46392	38306	39190
50°	40331	33372	34071
55°	35220	29304	29619
60°	31280	25393	23244
65°	27928	21351	17771
70°	24555	17519	14906
75°	21075	13831	14170
80°	16984	11839	13891
85°	11259	10253	12265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	4.8
10°-20°	321.7	13.8
20°-30°	459.3	19.6
30°-40°	481.1	20.6
40°-50°	405.0	17.3
50°-60°	288.3	12.3
60°-70°	168.7	7.2
70°-80°	79.9	3.4
80°-90°	20.5	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°	894.0	38.2
0°-40°	1375.0	58.8
0°-60°	2068.3	88.5
0°-90°	2337.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1194	1194	1194	1194	1194	
5°	1215	1205	1189	1172	1168	117
15°	1252	1207	1127	1081	1076	353
25°	1174	1091	957	911	913	537
35°	921	845	724	700	713	572
45°	598	554	494	496	506	465
55°	368	338	307	307	310	332
65°	215	191	165	139	137	215
75°	100	83	65	64	67	107
85°	18	15	16	20	20	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°	1193.6	1193.6	1193.6	1193.6	1193.6	1193.6	1193.6	1193.6	1193.6
2.5°	1195.2	1195.2	1193.6	1192.0	1188.7	1183.8	1180.6	1177.3	1177.3
5°	1214.8	1211.5	1205.0	1196.9	1188.7	1178.9	1172.4	1167.5	1167.5
7.5°	1231.1	1224.6	1211.5	1196.9	1182.2	1169.2	1157.6	1151.1	1149.5
10°	1237.6	1229.4	1209.9	1187.1	1164.2	1146.2	1133.2	1125.1	1125.1
12.5°	1244.1	1234.3	1208.3	1175.7	1146.2	1121.8	1108.8	1102.3	1100.6
15°	1252.2	1239.2	1206.6	1165.9	1126.7	1099.0	1081.1	1076.2	1076.2
17.5°	1252.2	1236.0	1195.2	1144.6	1095.7	1064.8	1048.5	1043.6	1045.3
20°	1237.6	1219.7	1170.8	1108.8	1055.0	1022.3	1006.0	1002.8	1004.4
22.5°	1209.9	1188.7	1133.2	1066.4	1007.7	973.5	958.8	958.8	957.2
25°	1174.1	1151.1	1090.9	1020.7	957.2	923.0	911.4	913.1	913.1
27.5°	1126.7	1103.9	1043.6	968.6	904.9	870.7	862.6	865.8	867.5
30°	1068.1	1043.6	980.0	906.5	847.9	813.7	808.8	813.7	815.3
32.5°	996.3	978.3	916.3	841.4	785.9	756.6	754.9	759.8	766.3
35°	921.3	901.7	844.6	776.1	724.0	699.5	699.5	707.7	712.6
37.5°	839.8	820.2	768.0	711.0	666.8	644.0	647.3	655.4	657.1
40°	753.3	738.6	694.7	645.7	608.2	590.3	595.2	603.3	604.9
42.5°	671.7	658.7	622.9	578.9	551.1	538.0	544.6	554.5	557.7
45°	598.4	583.8	554.5	516.9	494.1	487.5	495.7	502.2	505.5
47.5°	531.5	518.5	494.1	459.9	443.6	440.3	448.4	451.7	455.0
50°	472.9	459.9	435.4	404.3	391.3	391.3	397.8	401.1	399.5
52.5°	415.7	404.3	381.5	355.5	347.3	347.3	352.2	353.8	357.1
55°	368.5	357.1	337.6	313.1	306.6	303.2	306.6	306.6	309.9
57.5°	324.5	314.8	296.7	273.9	265.8	262.5	260.9	259.2	262.5
60°	285.3	277.2	257.6	238.1	231.6	223.4	216.9	210.4	212.0
62.5°	249.5	241.3	223.4	203.9	197.3	185.9	177.7	169.5	172.8
65°	215.3	207.1	190.8	174.4	164.6	151.6	138.6	133.7	137.0
67.5°	184.3	177.7	161.4	145.1	137.0	122.3	109.3	109.3	110.9
70°	153.2	146.7	133.7	119.0	109.3	96.2	91.3	93.0	93.0
72.5°	125.6	120.7	107.6	94.6	84.8	76.7	76.7	78.3	79.9
75°	99.5	96.2	83.2	71.8	65.3	60.3	63.7	65.3	66.9
77.5°	76.7	71.8	62.0	53.8	48.9	50.5	53.8	55.4	57.0
80°	53.8	52.1	44.0	39.1	37.5	39.1	42.4	44.0	44.0
82.5°	34.2	32.6	27.7	26.1	26.1	27.7	30.9	30.9	30.9
85°	17.9	16.3	14.7	14.7	16.3	17.9	19.5	19.5	19.5
87.5°	6.5	4.9	6.5	6.5	8.1	8.1	8.1	8.1	8.1
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)