

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: P582070

Luminaire Tested: **HC625D010-HM60525927-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582070
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-HM60525927-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.1 lumens
Efficiency: N/A
Efficacy: 72.4 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

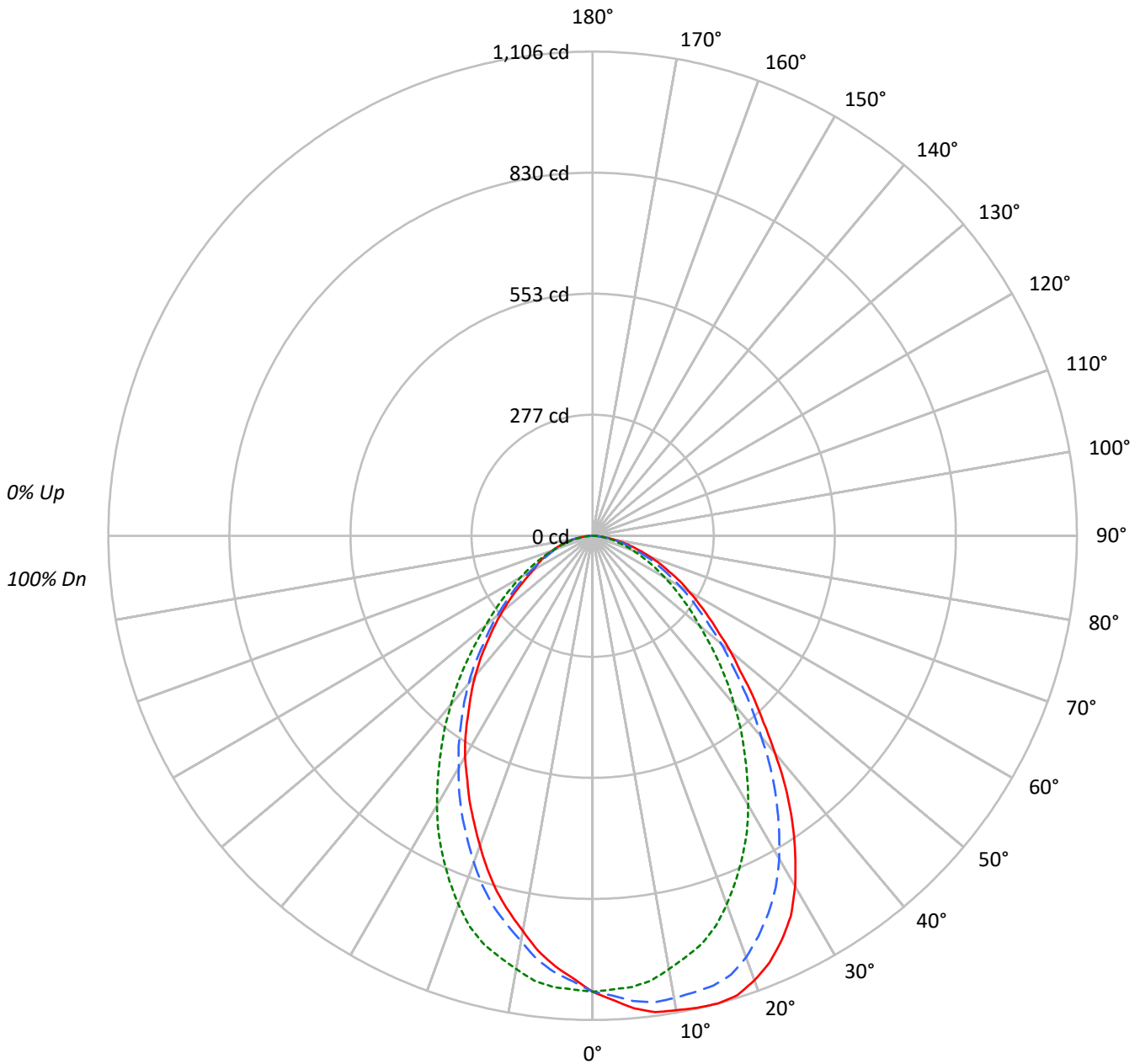
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	57095	57095	57095
5°	59630	56928	54309
10°	61255	55944	51029
15°	62770	54734	47810
20°	63046	52260	43911
25°	61721	48922	40272
30°	58560	44988	36911
35°	53190	40435	33114
40°	46344	36010	29799
45°	40097	31515	26189
50°	35027	27129	22950
55°	30948	23846	19689
60°	27816	20897	17060
65°	24918	18186	16552
70°	22247	15499	15499
75°	19296	13047	14551
80°	15501	11081	13291
85°	10567	9686	11448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	5.0
10°-20°	272.1	14.0
20°-30°	379.2	19.5
30°-40°	390.7	20.1
40°-50°	323.8	16.7
50°-60°	232.7	12.0
60°-70°	148.2	7.6
70°-80°	76.1	3.9
80°-90°	19.4	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°	749.2	38.6
0°-40°	1139.9	58.8
0°-60°	1696.4	87.4
0°-90°	1940.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1084	1067	1034	1001	987	104
15°	1106	1064	964	876	842	312
25°	1020	950	809	705	666	468
35°	795	730	604	524	495	494
45°	517	481	406	355	338	400
55°	324	297	250	222	206	292
65°	192	171	140	122	128	192
75°	91	78	62	64	69	97
85°	17	15	15	17	18	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°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1061.2	1056.9	1051.3	1045.8	1037.2	1027.5	1019.1	1016.3	1012.0
5°	1083.6	1078.0	1066.7	1052.6	1034.5	1016.3	1000.9	991.0	986.9
7.5°	1097.5	1090.6	1075.1	1051.3	1024.7	998.0	975.6	961.6	956.0
10°	1100.4	1093.4	1072.3	1040.1	1005.0	968.6	940.5	923.7	916.7
12.5°	1104.5	1094.7	1068.2	1030.2	985.4	943.4	908.3	887.2	880.2
15°	1106.0	1094.7	1063.9	1017.7	964.4	913.9	876.1	850.9	842.4
17.5°	1100.4	1087.7	1051.3	995.3	935.0	881.7	836.9	810.2	799.0
20°	1080.7	1066.7	1024.7	961.6	895.8	839.6	793.4	765.3	752.7
22.5°	1055.5	1037.2	989.6	922.3	853.7	794.8	748.5	720.5	707.8
25°	1020.4	1003.7	950.4	878.9	808.8	747.2	705.1	675.6	665.8
27.5°	979.8	960.2	905.5	834.0	762.6	700.9	660.2	633.6	621.0
30°	925.1	906.9	852.3	780.7	710.7	653.2	611.2	588.8	583.1
32.5°	860.7	845.3	792.0	724.7	657.4	604.2	569.1	545.3	539.7
35°	794.8	776.6	730.2	667.2	604.2	556.5	524.3	503.2	494.8
37.5°	723.4	706.4	667.2	611.2	555.1	510.2	482.2	464.0	455.6
40°	647.6	635.0	598.6	553.7	503.2	464.0	440.2	424.8	416.4
42.5°	577.5	564.9	539.7	497.6	455.6	420.5	399.5	385.4	378.4
45°	517.2	506.1	480.8	444.3	406.5	377.0	354.6	344.8	337.8
47.5°	457.0	451.3	428.9	395.3	360.2	335.1	319.6	308.4	302.7
50°	410.7	403.7	382.7	347.6	318.1	298.6	284.6	274.8	269.1
52.5°	363.0	356.1	336.4	307.0	283.2	264.9	250.9	242.5	236.9
55°	323.8	318.1	297.2	270.5	249.5	234.1	221.5	211.6	206.0
57.5°	287.3	281.8	262.1	236.9	218.6	204.6	193.5	185.1	178.1
60°	253.7	249.5	229.9	206.0	190.6	176.7	166.8	159.8	155.6
62.5°	224.3	215.9	199.1	178.1	164.0	152.7	143.0	138.8	141.6
65°	192.1	187.8	171.0	152.7	140.2	128.9	121.9	124.8	127.6
67.5°	165.4	159.8	145.7	128.9	117.8	109.4	105.1	110.8	112.1
70°	138.8	133.2	120.5	106.5	96.7	91.1	91.1	95.4	96.7
72.5°	113.5	109.4	98.1	87.0	79.9	75.7	78.4	81.3	82.7
75°	91.1	87.0	78.4	68.7	61.6	61.6	64.5	67.3	68.7
77.5°	70.0	67.3	58.9	51.9	49.1	49.1	51.9	53.3	54.6
80°	49.1	46.2	42.1	37.8	35.1	37.8	40.6	40.6	42.1
82.5°	32.2	30.8	28.1	25.2	25.2	26.7	28.1	29.4	29.4
85°	16.8	16.8	15.4	14.0	15.4	16.8	16.8	18.2	18.2
87.5°	5.6	5.6	5.6	5.6	7.0	7.0	7.0	7.0	7.0
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)