

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: P581890

Luminaire Tested: **HC620D010-HM60525835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581890
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: HC620D010-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: 2024.4 lumens
Efficiency: N/A
Efficacy: 101.2 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

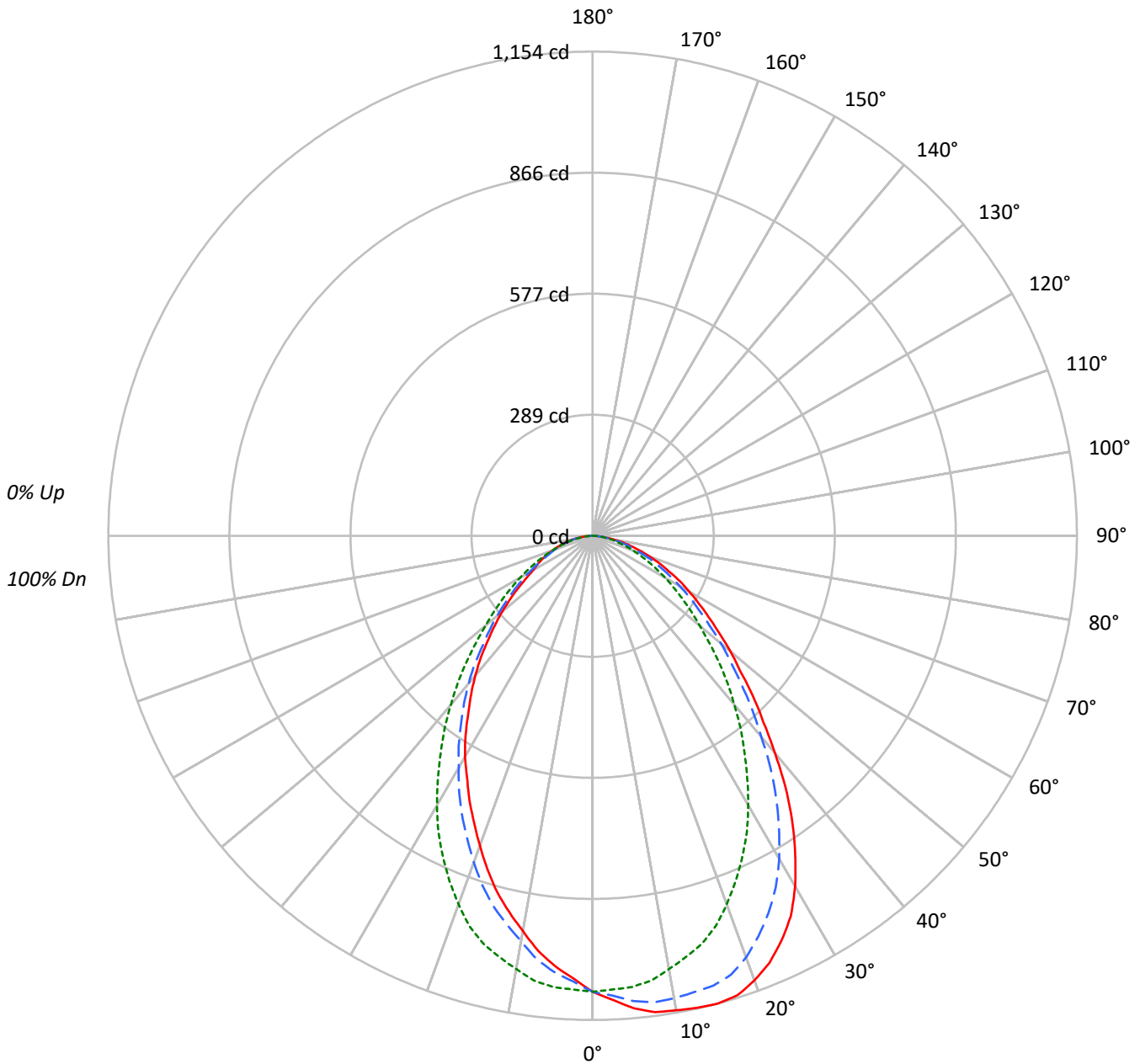
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC620D010-HM60525835-61WWW

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°	59579	59579	59579
5°	62216	59399	56664
10°	63916	58377	53250
15°	65500	57112	49892
20°	65788	54523	45819
25°	64407	51051	42027
30°	61104	46938	38512
35°	55506	42188	34552
40°	48355	37578	31087
45°	41849	32887	27328
50°	36553	28315	23957
55°	32295	24888	20549
60°	29033	21818	17806
65°	25995	18977	17265
70°	23209	16189	16189
75°	20143	13640	15187
80°	16164	11555	13828
85°	11070	10127	11951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	5.0
10°-20°	283.9	14.0
20°-30°	395.7	19.5
30°-40°	407.7	20.1
40°-50°	337.9	16.7
50°-60°	242.8	12.0
60°-70°	154.6	7.6
70°-80°	79.4	3.9
80°-90°	20.2	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°	781.7	38.6
0°-40°	1189.4	58.8
0°-60°	1770.1	87.4
0°-90°	2024.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1087	1087	1087	1087	1087	
5°	1131	1113	1079	1044	1030	108
15°	1154	1110	1006	914	879	325
25°	1065	992	844	736	695	488
35°	829	762	630	547	516	515
45°	540	502	424	370	352	418
55°	338	310	260	231	215	304
65°	200	178	146	127	133	201
75°	95	82	64	67	72	101
85°	18	16	16	18	19	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°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
2.5°	1107.3	1102.9	1097.0	1091.2	1082.4	1072.2	1063.3	1060.4	1056.1
5°	1130.6	1124.7	1113.1	1098.4	1079.4	1060.4	1044.3	1034.1	1029.7
7.5°	1145.2	1138.0	1121.9	1097.0	1069.2	1041.5	1018.0	1003.4	997.5
10°	1148.2	1140.8	1119.0	1085.3	1048.7	1010.7	981.4	963.8	956.6
12.5°	1152.6	1142.3	1114.5	1075.1	1028.2	984.4	947.8	925.9	918.5
15°	1154.1	1142.3	1110.1	1061.8	1006.3	953.6	914.2	887.8	879.1
17.5°	1148.2	1135.0	1097.0	1038.5	975.6	920.0	873.2	845.4	833.7
20°	1127.7	1113.1	1069.2	1003.4	934.6	876.1	827.9	798.7	785.4
22.5°	1101.4	1082.4	1032.6	962.5	890.8	829.4	781.1	751.9	738.6
25°	1064.8	1047.2	991.7	917.1	844.0	779.6	735.8	705.0	694.8
27.5°	1022.4	1001.9	944.9	870.3	795.7	731.4	688.9	661.1	648.0
30°	965.3	946.4	889.3	814.7	741.5	681.6	637.8	614.3	608.4
32.5°	898.0	881.9	826.4	756.2	686.0	630.4	593.8	569.0	563.1
35°	829.4	810.3	762.1	696.2	630.4	580.7	547.0	525.1	516.3
37.5°	754.7	737.1	696.2	637.8	579.2	532.4	503.2	484.1	475.4
40°	675.7	662.6	624.5	577.7	525.1	484.1	459.3	443.2	434.4
42.5°	602.6	589.5	563.1	519.3	475.4	438.8	416.8	402.2	395.0
45°	539.8	528.0	501.7	463.6	424.2	393.5	370.0	359.8	352.5
47.5°	476.9	471.0	447.5	412.5	375.9	349.5	333.4	321.8	315.9
50°	428.6	421.2	399.3	362.8	332.0	311.6	297.0	286.6	280.9
52.5°	378.9	371.5	351.0	320.3	295.5	276.5	261.8	253.0	247.2
55°	337.9	332.0	310.1	282.3	260.4	244.3	231.1	220.8	215.0
57.5°	299.8	294.0	273.5	247.2	228.2	213.6	201.9	193.1	185.8
60°	264.8	260.4	239.9	215.0	199.0	184.3	174.0	166.8	162.4
62.5°	234.1	225.2	207.7	185.8	171.1	159.4	149.2	144.8	147.7
65°	200.4	196.0	178.4	159.4	146.3	134.6	127.2	130.2	133.1
67.5°	172.6	166.8	152.2	134.6	122.8	114.1	109.7	115.6	117.0
70°	144.8	138.9	125.8	111.1	101.0	95.1	95.1	99.5	101.0
72.5°	118.5	114.1	102.4	90.6	83.4	79.0	81.9	84.9	86.3
75°	95.1	90.6	81.9	71.7	64.4	64.4	67.3	70.2	71.7
77.5°	73.1	70.2	61.4	54.2	51.2	51.2	54.2	55.6	57.0
80°	51.2	48.3	43.8	39.5	36.6	39.5	42.4	42.4	43.8
82.5°	33.7	32.2	29.2	26.3	26.3	27.8	29.2	30.7	30.7
85°	17.6	17.6	16.1	14.6	16.1	17.6	17.6	19.0	19.0
87.5°	5.9	5.9	5.9	5.9	7.4	7.4	7.4	7.4	7.4
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)