

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: P581891

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581891
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: HC620D010-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: 2096.1 lumens
Efficiency: N/A
Efficacy: 104.8 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

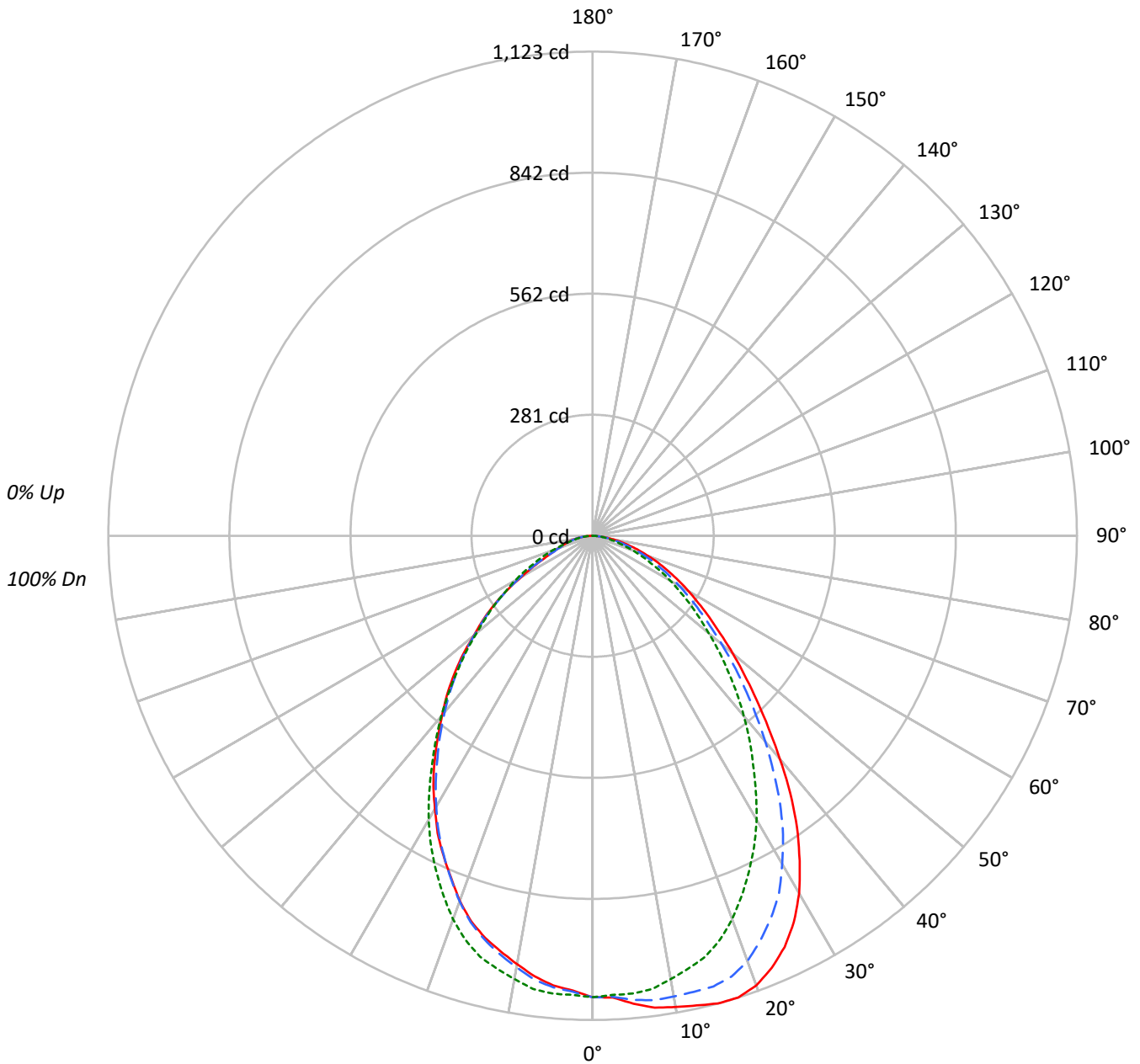
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	58674	58674	58674
5°	59944	58656	57610
10°	61778	58110	56161
15°	63729	57344	54773
20°	64744	55194	52545
25°	63681	51910	49527
30°	60623	48134	46279
35°	55292	43446	42764
40°	48341	39030	38823
45°	41601	34345	35143
50°	36169	29927	30558
55°	31588	26274	26551
60°	28046	22772	20843
65°	25048	19146	15929
70°	22023	15708	13368
75°	18893	12391	12687
80°	15248	10639	12438
85°	10127	9183	11070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	4.8
10°-20°	288.5	13.8
20°-30°	411.8	19.6
30°-40°	431.4	20.6
40°-50°	363.2	17.3
50°-60°	258.5	12.3
60°-70°	151.3	7.2
70°-80°	71.6	3.4
80°-90°	18.4	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°	801.7	38.2
0°-40°	1233.0	58.8
0°-60°	1854.7	88.5
0°-90°	2096.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1089	1080	1066	1051	1047	105
15°	1123	1082	1010	969	965	317
25°	1053	978	858	817	819	482
35°	826	757	649	627	639	513
45°	537	497	443	444	453	417
55°	330	303	275	275	278	298
65°	193	171	148	124	123	192
75°	89	75	58	57	60	96
85°	16	13	15	18	18	21
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°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1071.8	1071.8	1070.3	1068.9	1065.9	1061.5	1058.6	1055.7	1055.7
5°	1089.3	1086.4	1080.5	1073.3	1065.9	1057.2	1051.3	1046.9	1046.9
7.5°	1104.0	1098.1	1086.4	1073.3	1060.0	1048.4	1038.2	1032.3	1030.8
10°	1109.8	1102.5	1085.0	1064.5	1043.9	1027.9	1016.2	1008.9	1008.9
12.5°	1115.7	1106.8	1083.5	1054.3	1027.9	1006.0	994.3	988.4	987.0
15°	1122.9	1111.2	1082.0	1045.4	1010.4	985.5	969.4	965.1	965.1
17.5°	1122.9	1108.3	1071.8	1026.5	982.5	954.8	940.2	935.7	937.2
20°	1109.8	1093.7	1049.8	994.3	946.1	916.8	902.2	899.3	900.7
22.5°	1085.0	1065.9	1016.2	956.3	903.6	872.9	859.7	859.7	858.2
25°	1052.8	1032.3	978.2	915.4	858.2	827.5	817.3	818.8	818.8
27.5°	1010.4	989.9	935.7	868.6	811.5	780.8	773.5	776.4	777.9
30°	957.7	935.7	878.8	812.9	760.4	729.7	725.2	729.7	731.1
32.5°	893.4	877.3	821.8	754.5	704.7	678.4	677.0	681.4	687.2
35°	826.2	808.6	757.4	696.0	649.2	627.2	627.2	634.6	639.0
37.5°	753.0	735.4	688.6	637.5	598.0	577.6	580.4	587.8	589.3
40°	675.5	662.4	622.9	579.1	545.4	529.3	533.6	541.0	542.5
42.5°	602.4	590.7	558.6	519.0	494.2	482.5	488.3	497.2	500.1
45°	536.6	523.4	497.2	463.5	443.0	437.2	444.5	450.4	453.3
47.5°	476.7	465.0	443.0	412.3	397.7	394.7	402.1	405.0	408.0
50°	424.1	412.3	390.4	362.7	350.9	350.9	356.8	359.7	358.3
52.5°	372.9	362.7	342.2	318.7	311.5	311.5	315.9	317.2	320.2
55°	330.5	320.2	302.6	280.8	274.9	271.9	274.9	274.9	277.8
57.5°	291.0	282.2	266.1	245.6	238.4	235.4	234.0	232.5	235.4
60°	255.8	248.6	231.0	213.5	207.7	200.3	194.4	188.6	190.1
62.5°	223.8	216.4	200.3	182.8	177.0	166.7	159.4	152.0	155.0
65°	193.1	185.7	171.1	156.5	147.6	136.0	124.3	119.9	122.8
67.5°	165.2	159.4	144.8	130.2	122.8	109.7	98.0	98.0	99.5
70°	137.4	131.5	119.9	106.7	98.0	86.2	81.9	83.4	83.4
72.5°	112.6	108.2	96.5	84.9	76.0	68.8	68.8	70.1	71.6
75°	89.2	86.2	74.6	64.4	58.5	54.0	57.0	58.5	59.9
77.5°	68.8	64.4	55.5	48.3	43.8	45.3	48.3	49.7	51.2
80°	48.3	46.8	39.4	35.1	33.7	35.1	38.1	39.4	39.4
82.5°	30.7	29.2	24.8	23.3	23.3	24.8	27.8	27.8	27.8
85°	16.1	14.6	13.1	13.1	14.6	16.1	17.6	17.6	17.6
87.5°	5.9	4.4	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)