

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: P593159

Luminaire Tested: **HC620D010-HM60525950-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593159
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-HM60525950-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

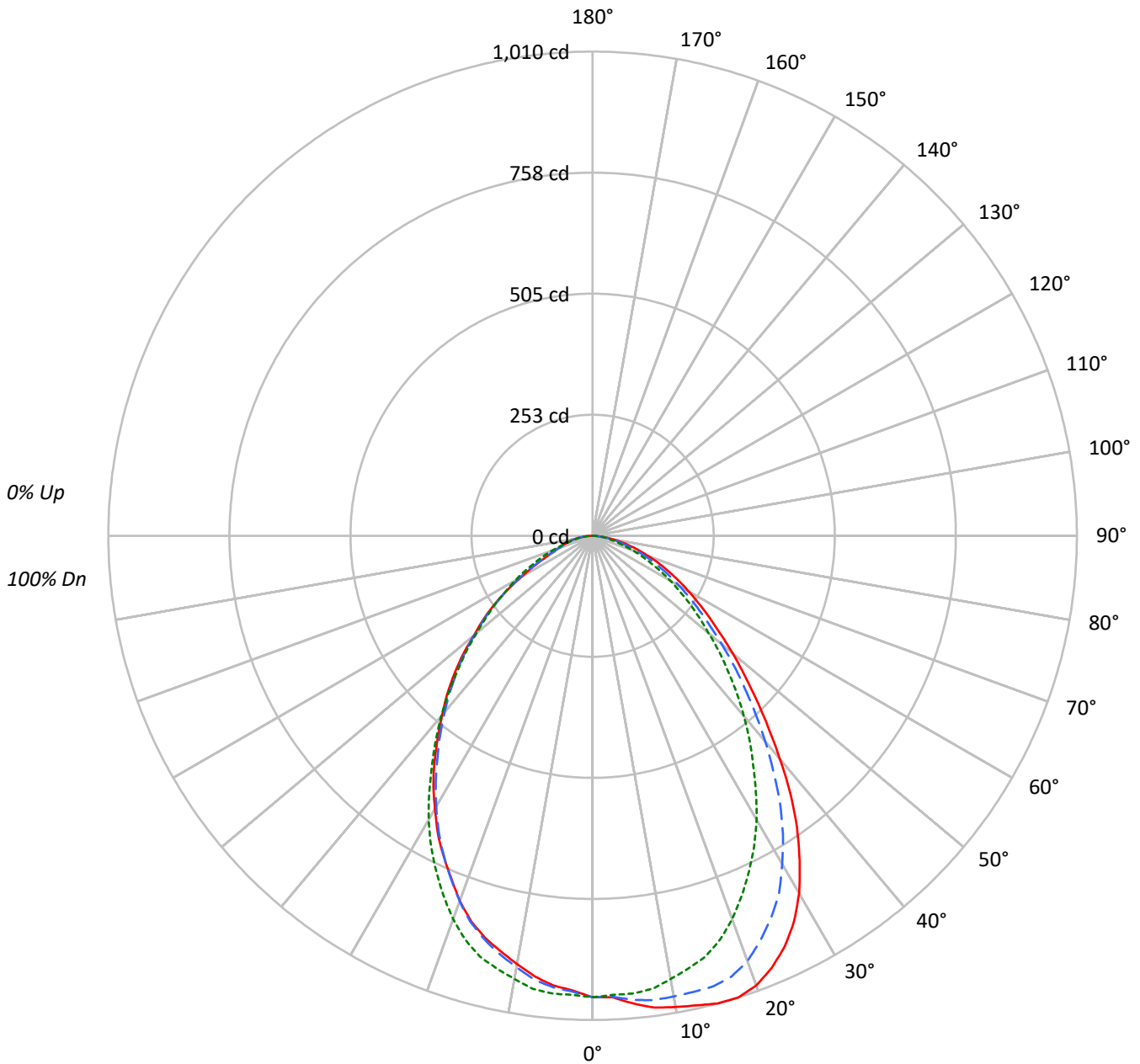
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	52764	52764	52764
5°	53907	52751	51810
10°	55560	52259	50506
15°	57310	51572	49257
20°	58228	49634	47254
25°	57263	46690	44537
30°	54521	43285	41620
35°	49717	39070	38461
40°	43474	35101	34915
45°	37407	30895	31608
50°	32528	26907	27470
55°	28405	23626	23875
60°	25228	20470	18748
65°	22519	17226	14334
70°	19811	14121	12021
75°	16987	11141	11416
80°	13701	9566	11207
85°	9120	8240	9875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	4.8
10°-20°	259.4	13.8
20°-30°	370.4	19.6
30°-40°	387.9	20.6
40°-50°	326.6	17.3
50°-60°	232.5	12.3
60°-70°	136.1	7.2
70°-80°	64.4	3.4
80°-90°	16.6	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°	720.9	38.2
0°-40°	1108.9	58.8
0°-60°	1668.0	88.5
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	962	962	962	962	962	
5°	980	972	959	946	942	94
15°	1010	973	909	872	868	285
25°	947	880	772	735	736	433
35°	743	681	584	564	575	461
45°	482	447	398	400	408	375
55°	297	272	247	247	250	268
65°	174	154	133	112	110	173
75°	80	67	53	51	54	86
85°	14	12	13	16	16	19
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°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	963.8	963.8	962.5	961.2	958.6	954.7	952.1	949.3	949.3
5°	979.6	977.0	971.8	965.2	958.6	950.7	945.5	941.5	941.5
7.5°	992.7	987.5	977.0	965.2	953.3	942.8	933.6	928.4	927.0
10°	998.1	991.5	975.6	957.3	938.8	924.4	913.9	907.3	907.3
12.5°	1003.3	995.5	974.4	948.1	924.4	904.7	894.2	888.8	887.6
15°	1009.8	999.3	973.0	940.2	908.7	886.2	871.8	867.9	867.9
17.5°	1009.8	996.7	963.8	923.1	883.6	858.7	845.4	841.6	842.8
20°	998.1	983.6	944.1	894.2	850.8	824.5	811.3	808.7	810.0
22.5°	975.6	958.6	913.9	859.9	812.6	785.1	773.2	773.2	771.9
25°	946.7	928.4	879.7	823.1	771.9	744.3	735.1	736.3	736.3
27.5°	908.7	890.2	841.6	781.1	729.8	702.1	695.5	698.3	699.5
30°	861.3	841.6	790.3	731.1	683.8	656.1	652.2	656.1	657.5
32.5°	803.4	788.9	738.9	678.6	633.8	610.1	608.8	612.7	618.1
35°	742.9	727.2	681.2	625.9	583.8	564.1	564.1	570.7	574.7
37.5°	677.2	661.4	619.3	573.3	537.8	519.4	522.0	528.5	529.9
40°	607.5	595.6	560.2	520.7	490.5	476.0	479.9	486.5	487.9
42.5°	541.8	531.3	502.3	466.8	444.5	433.9	439.2	447.1	449.7
45°	482.5	470.8	447.1	416.8	398.5	393.2	399.7	405.0	407.7
47.5°	428.6	418.2	398.5	370.8	357.7	355.1	361.7	364.3	366.9
50°	381.4	370.8	351.1	326.1	315.5	315.5	320.9	323.5	322.1
52.5°	335.3	326.1	307.7	286.6	280.1	280.1	284.0	285.3	288.0
55°	297.2	288.0	272.1	252.4	247.2	244.6	247.2	247.2	249.8
57.5°	261.7	253.8	239.3	220.9	214.4	211.8	210.4	209.0	211.8
60°	230.1	223.5	207.8	191.9	186.7	180.1	174.9	169.6	171.0
62.5°	201.2	194.6	180.1	164.4	159.1	149.9	143.3	136.8	139.4
65°	173.6	167.0	153.9	140.7	132.8	122.3	111.7	107.9	110.5
67.5°	148.5	143.3	130.2	117.0	110.5	98.6	88.1	88.1	89.4
70°	123.6	118.4	107.9	96.0	88.1	77.6	73.6	75.0	75.0
72.5°	101.3	97.3	86.8	76.3	68.3	61.7	61.7	63.1	64.5
75°	80.2	77.6	67.1	57.9	52.6	48.6	51.3	52.6	53.9
77.5°	61.7	57.9	50.0	43.4	39.4	40.8	43.4	44.8	46.0
80°	43.4	42.0	35.5	31.6	30.3	31.6	34.2	35.5	35.5
82.5°	27.6	26.3	22.3	21.1	21.1	22.3	25.0	25.0	25.0
85°	14.5	13.1	11.8	11.8	13.1	14.5	15.7	15.7	15.7
87.5°	5.2	4.0	5.2	5.2	6.6	6.6	6.6	6.6	6.6
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)