

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: P581854

Luminaire Tested: **HC620D010-HM60525827-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581854
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-HM60525827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1852.5 lumens
Efficiency: N/A
Efficacy: 92.6 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

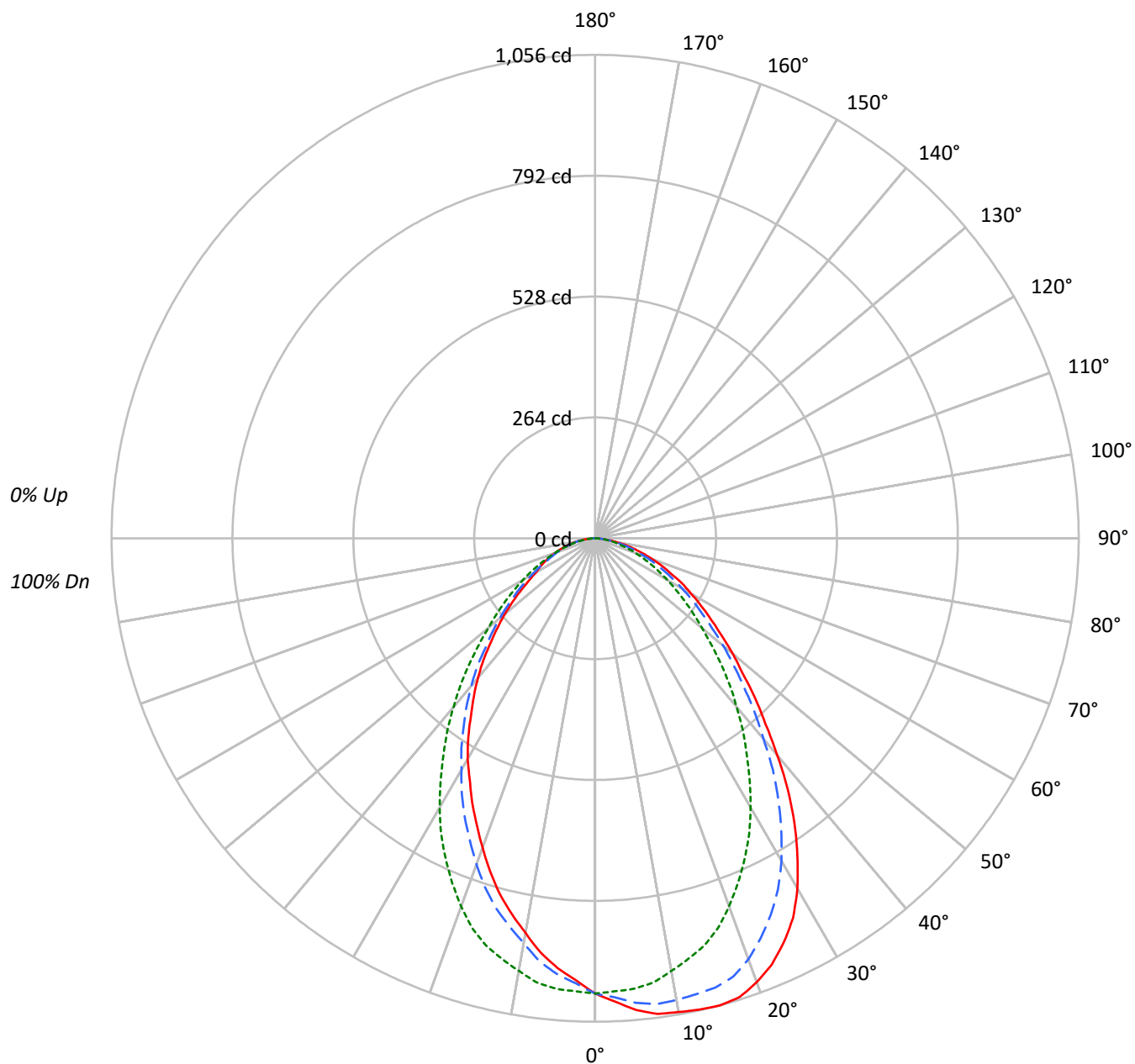
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	54519	54519	54519
5°	56939	54353	51854
10°	58488	53423	48730
15°	59938	52265	45653
20°	60199	49897	41934
25°	58939	46714	38452
30°	55920	42962	35246
35°	50788	38608	31621
40°	44254	34386	28453
45°	38291	30096	25010
50°	33440	25918	21918
55°	29552	22776	18809
60°	26555	19966	16282
65°	23777	17356	15799
70°	21254	14794	14794
75°	18427	12476	13895
80°	14775	10544	12659
85°	10127	9246	10944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	5.0
10°-20°	259.8	14.0
20°-30°	362.1	19.5
30°-40°	373.1	20.1
40°-50°	309.2	16.7
50°-60°	222.2	12.0
60°-70°	141.5	7.6
70°-80°	72.7	3.9
80°-90°	18.5	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°	715.4	38.6
0°-40°	1088.5	58.8
0°-60°	1619.9	87.4
0°-90°	1852.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1852.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	994	994	994	994	994	
5°	1035	1019	988	956	942	99
15°	1056	1016	921	837	804	298
25°	974	908	772	673	636	446
35°	759	697	577	501	472	471
45°	494	459	388	339	323	382
55°	309	284	238	212	197	279
65°	183	163	134	116	122	184
75°	87	75	59	62	66	93
85°	16	15	15	16	17	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°	994.5	994.5	994.5	994.5	994.5	994.5	994.5	994.5	994.5
2.5°	1013.2	1009.2	1003.8	998.5	990.5	981.1	973.1	970.4	966.3
5°	1034.7	1029.3	1018.6	1005.2	987.7	970.4	955.7	946.3	942.3
7.5°	1048.0	1041.3	1026.6	1003.8	978.5	953.0	931.6	918.2	912.9
10°	1050.7	1044.1	1023.9	993.2	959.7	924.9	898.1	882.0	875.4
12.5°	1054.7	1045.3	1019.9	983.8	941.0	900.8	867.3	847.3	840.6
15°	1056.1	1045.3	1016.0	971.8	920.9	872.6	836.6	812.5	804.4
17.5°	1050.7	1038.6	1003.8	950.4	892.8	841.9	799.1	773.6	763.0
20°	1031.9	1018.6	978.5	918.2	855.3	801.7	757.6	730.8	718.8
22.5°	1007.9	990.5	944.9	880.7	815.2	758.9	714.7	688.0	675.9
25°	974.4	958.4	907.5	839.2	772.3	713.5	673.2	645.1	635.7
27.5°	935.6	916.8	864.7	796.4	728.2	669.3	630.4	605.0	592.9
30°	883.4	866.0	813.8	745.5	678.7	623.7	583.6	562.2	556.8
32.5°	821.9	807.1	756.3	692.0	627.8	576.9	543.4	520.7	515.3
35°	758.9	741.5	697.4	637.1	576.9	531.4	500.6	480.5	472.5
37.5°	690.7	674.6	637.1	583.6	530.0	487.2	460.5	443.0	435.0
40°	618.4	606.4	571.5	528.7	480.5	443.0	420.2	405.6	397.6
42.5°	551.4	539.4	515.3	475.2	435.0	401.5	381.5	368.1	361.4
45°	493.9	483.2	459.1	424.3	388.2	360.1	338.7	329.2	322.6
47.5°	436.3	431.0	409.6	377.4	344.0	319.8	305.2	294.5	289.1
50°	392.1	385.4	365.4	332.0	303.9	285.1	271.7	262.3	257.0
52.5°	346.7	340.0	321.2	293.1	270.3	253.0	239.6	231.6	226.3
55°	309.2	303.9	283.7	258.3	238.3	223.5	211.5	202.1	196.8
57.5°	274.4	269.1	250.3	226.3	208.8	195.4	184.7	176.6	170.0
60°	242.2	238.3	219.5	196.8	182.1	168.7	159.3	152.6	148.5
62.5°	214.1	206.1	190.1	170.0	156.6	145.9	136.5	132.6	135.2
65°	183.3	179.4	163.3	145.9	133.8	123.2	116.5	119.1	121.8
67.5°	157.9	152.6	139.2	123.2	112.4	104.3	100.4	105.7	107.1
70°	132.6	127.1	115.1	101.7	92.3	87.0	87.0	91.0	92.3
72.5°	108.4	104.3	93.7	82.9	76.3	72.3	75.0	77.6	79.0
75°	87.0	82.9	75.0	65.6	58.9	58.9	61.5	64.2	65.6
77.5°	67.0	64.2	56.2	49.5	46.8	46.8	49.5	50.9	52.2
80°	46.8	44.2	40.1	36.1	33.4	36.1	38.9	38.9	40.1
82.5°	30.8	29.5	26.7	24.1	24.1	25.4	26.7	28.1	28.1
85°	16.1	16.1	14.7	13.4	14.7	16.1	16.1	17.4	17.4
87.5°	5.3	5.3	5.3	5.3	6.7	6.7	6.7	6.7	6.7
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)