

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: P581945

Luminaire Tested: **HC620D010-HM60525930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581945
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-HM60525930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1768.4 lumens
Efficiency: N/A
Efficacy: 88.4 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

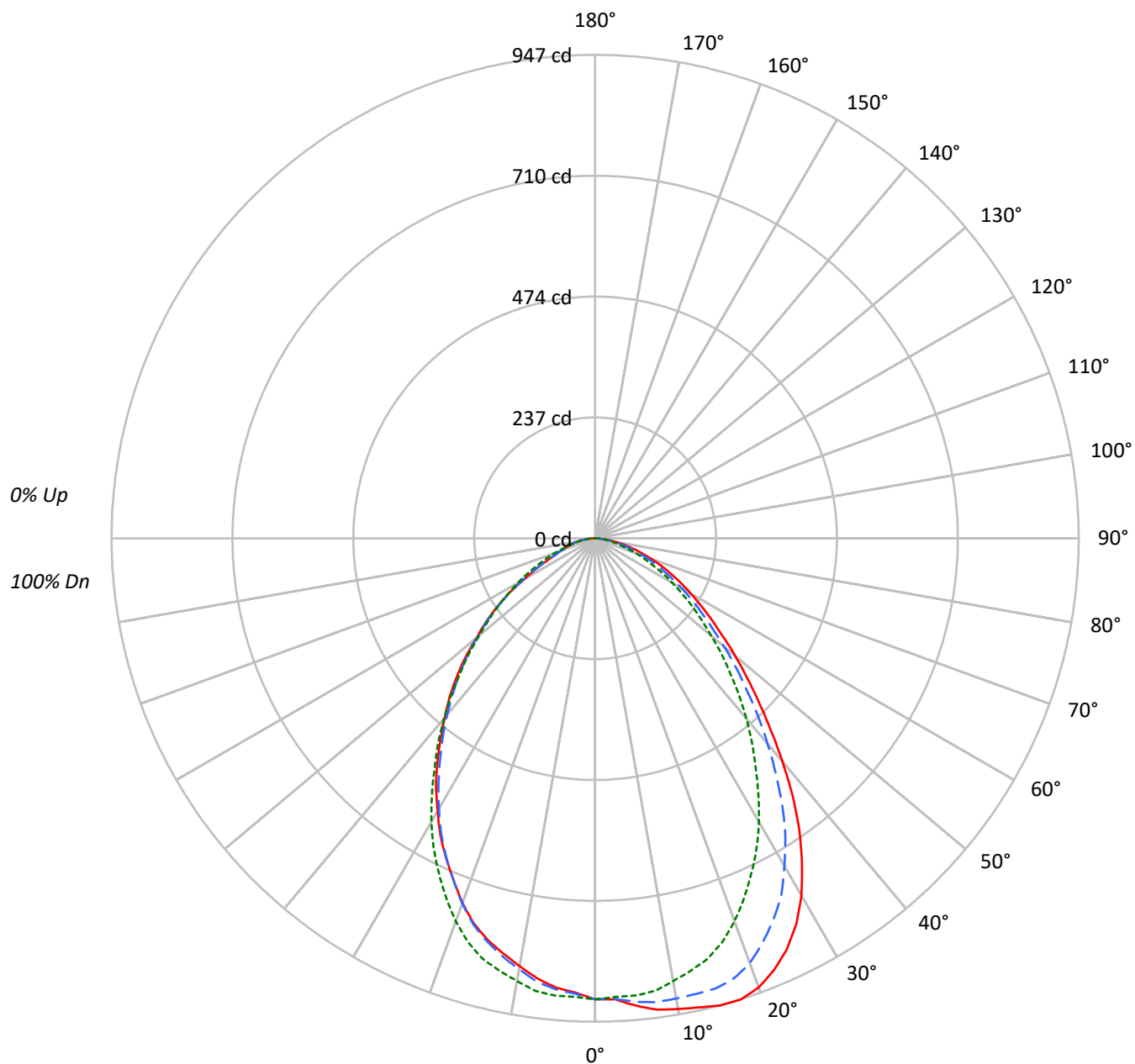
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	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°	49503	49503	49503
5°	50572	49488	48608
10°	52120	49030	47383
15°	53769	48383	46209
20°	54622	46560	44331
25°	53725	43799	41785
30°	51153	40608	39044
35°	46645	36654	36078
40°	40784	32926	32747
45°	35097	28980	29646
50°	30506	25253	25782
55°	26647	22164	22403
60°	23660	19209	17575
65°	21118	16163	13452
70°	18577	13239	11284
75°	15928	10463	10696
80°	12849	8934	10513
85°	8554	7737	9309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	4.8
10°-20°	243.4	13.8
20°-30°	347.4	19.6
30°-40°	363.9	20.6
40°-50°	306.4	17.3
50°-60°	218.1	12.3
60°-70°	127.7	7.2
70°-80°	60.4	3.4
80°-90°	15.5	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°	676.3	38.2
0°-40°	1040.3	58.8
0°-60°	1564.8	88.5
0°-90°	1768.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	903	903	903	903	903	
5°	919	912	899	887	883	88
15°	947	913	852	818	814	267
25°	888	825	724	690	691	407
35°	697	639	548	529	539	433
45°	453	419	374	375	382	351
55°	279	255	232	232	234	251
65°	163	144	125	105	104	162
75°	75	63	49	48	50	81
85°	14	11	12	15	15	18
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°	903.0	903.0	903.0	903.0	903.0	903.0	903.0	903.0	903.0
2.5°	904.2	904.2	903.0	901.8	899.3	895.6	893.1	890.7	890.7
5°	919.0	916.6	911.6	905.5	899.3	891.9	886.9	883.3	883.3
7.5°	931.3	926.5	916.6	905.5	894.4	884.5	875.8	870.9	869.7
10°	936.3	930.1	915.4	898.0	880.8	867.2	857.3	851.2	851.2
12.5°	941.2	933.8	914.1	889.4	867.2	848.7	838.9	833.9	832.6
15°	947.4	937.6	912.9	882.0	852.5	831.4	817.9	814.2	814.2
17.5°	947.4	935.1	904.2	866.0	829.0	805.6	793.2	789.5	790.7
20°	936.3	922.7	885.8	838.9	798.1	773.5	761.1	758.7	759.9
22.5°	915.4	899.3	857.3	806.8	762.4	736.4	725.3	725.3	724.1
25°	888.2	870.9	825.3	772.3	724.1	698.3	689.5	690.8	690.8
27.5°	852.5	835.1	789.5	732.7	684.7	658.7	652.6	655.0	656.2
30°	808.1	789.5	741.4	685.9	641.5	615.6	611.8	615.6	616.8
32.5°	753.8	740.2	693.3	636.5	594.6	572.4	571.1	574.9	579.8
35°	697.0	682.2	639.0	587.2	547.7	529.2	529.2	535.3	539.1
37.5°	635.3	620.5	581.0	537.8	504.5	487.3	489.8	495.9	497.2
40°	569.9	558.8	525.5	488.5	460.1	446.5	450.3	456.5	457.6
42.5°	508.3	498.4	471.2	437.9	416.9	407.1	412.1	419.4	421.9
45°	452.7	441.6	419.4	391.0	373.8	368.8	375.0	379.9	382.4
47.5°	402.1	392.2	373.8	347.8	335.6	333.1	339.2	341.7	344.2
50°	357.7	347.8	329.4	305.9	296.1	296.1	301.0	303.4	302.3
52.5°	314.5	305.9	288.7	269.0	262.7	262.7	266.5	267.7	270.1
55°	278.8	270.1	255.4	236.8	231.9	229.4	231.9	231.9	234.4
57.5°	245.5	238.0	224.6	207.2	201.1	198.6	197.4	196.1	198.6
60°	215.8	209.7	194.9	180.1	175.2	169.0	164.1	159.2	160.3
62.5°	188.8	182.5	169.0	154.2	149.2	140.6	134.5	128.3	130.7
65°	162.8	156.7	144.3	132.0	124.6	114.8	104.8	101.2	103.7
67.5°	139.4	134.5	122.1	109.8	103.7	92.6	82.6	82.6	83.8
70°	115.9	111.0	101.2	90.1	82.6	72.7	69.1	70.4	70.4
72.5°	94.9	91.3	81.5	71.5	64.1	58.0	58.0	59.3	60.5
75°	75.2	72.7	62.9	54.3	49.4	45.7	48.2	49.4	50.5
77.5°	58.0	54.3	46.9	40.7	37.0	38.3	40.7	41.9	43.2
80°	40.7	39.4	33.3	29.6	28.3	29.6	32.1	33.3	33.3
82.5°	25.9	24.7	21.0	19.7	19.7	21.0	23.5	23.5	23.5
85°	13.6	12.3	11.1	11.1	12.3	13.6	14.8	14.8	14.8
87.5°	5.0	3.7	5.0	5.0	6.1	6.1	6.1	6.1	6.1
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)