

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: P581919

Luminaire Tested: **HC620D010-HM60525927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1690.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

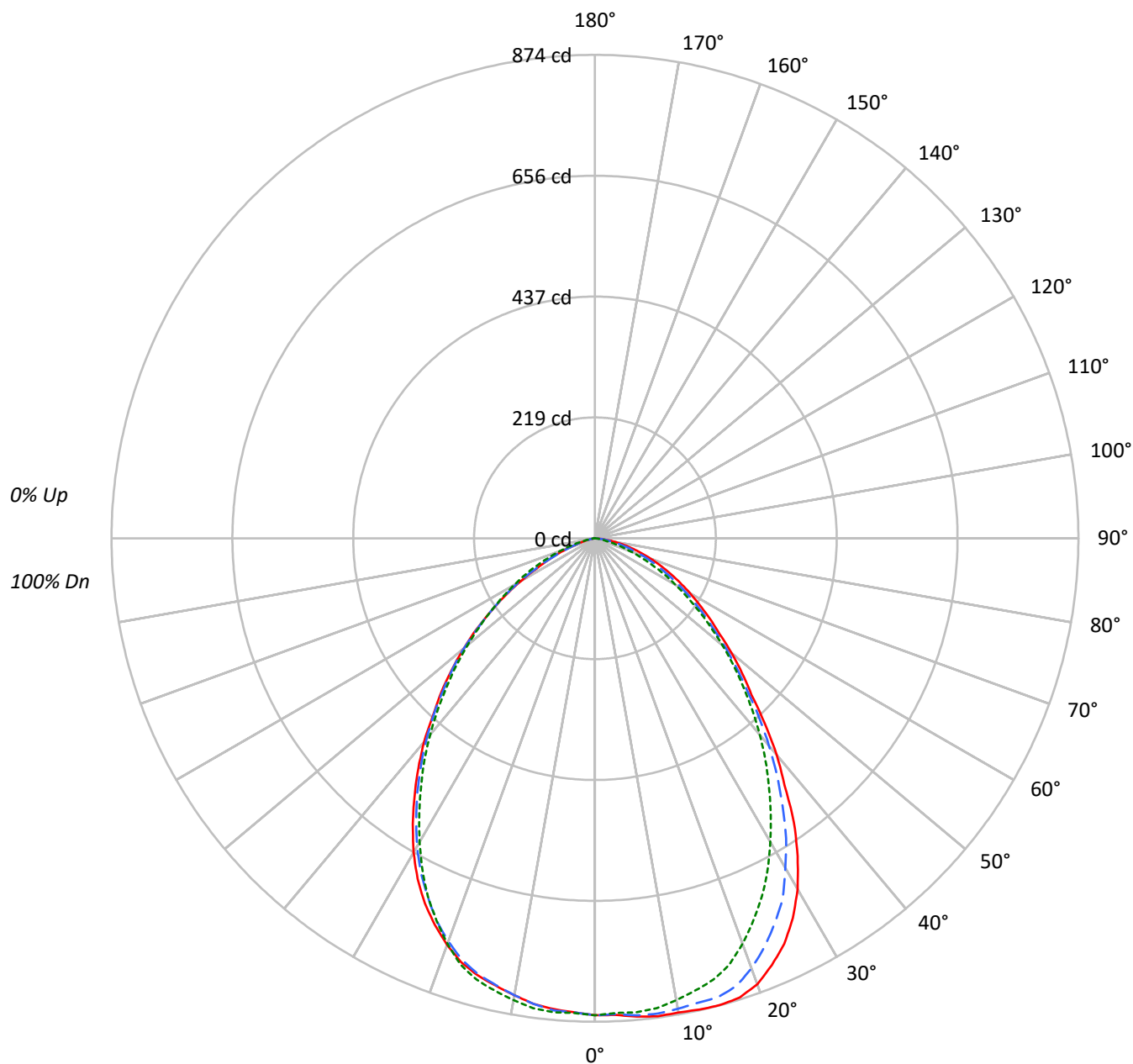
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77		
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47277	47277	47277
5°	47771	47336	47023
10°	48452	47194	46693
15°	49592	46896	46447
20°	50049	45504	45632
25°	48952	43212	44035
30°	46368	40139	41506
35°	41981	36694	38046
40°	36561	33162	34379
45°	31026	29352	30406
50°	27470	25645	26319
55°	24200	21925	21820
60°	21687	18474	16983
65°	19354	14814	12167
70°	17038	10691	7613
75°	14382	6460	4321
80°	11049	2873	1799
85°	6416	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	4.8
10°-20°	235.3	13.9
20°-30°	340.1	20.1
30°-40°	357.9	21.2
40°-50°	300.9	17.8
50°-60°	211.2	12.5
60°-70°	116.2	6.9
70°-80°	41.3	2.4
80°-90°	5.4	0.3
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°	657.3	38.9
0°-40°	1015.2	60.1
0°-60°	1527.2	90.4
0°-90°	1690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1690.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	862	862	862	862	862	
5°	868	866	860	857	854	83
15°	874	859	826	816	818	247
25°	809	769	714	716	728	370
35°	627	591	548	560	568	389
45°	400	389	379	388	392	314
55°	253	240	229	229	228	228
65°	149	133	114	94	94	148
75°	68	54	30	20	20	73
85°	10	6	1	1	1	14
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°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
2.5°	862.4	862.4	861.3	861.3	859.0	859.0	857.9	857.9	857.9
5°	868.1	868.1	865.8	862.4	860.2	856.8	856.8	855.6	854.5
7.5°	871.5	870.4	867.0	862.4	856.8	851.1	849.0	850.0	849.0
10°	870.4	868.1	863.6	854.5	847.8	839.9	838.8	837.6	838.8
12.5°	872.6	869.2	860.2	849.0	837.6	828.6	827.4	827.4	828.6
15°	873.8	870.4	859.0	842.2	826.3	817.2	816.1	817.2	818.4
17.5°	870.4	865.8	849.0	826.3	808.2	799.2	799.2	801.4	803.6
20°	857.9	851.1	827.4	800.4	780.0	773.2	775.4	780.0	782.2
22.5°	835.4	827.4	800.4	769.8	748.3	742.7	748.3	753.9	756.2
25°	809.3	800.4	768.6	737.0	714.4	707.6	715.5	724.6	728.0
27.5°	774.3	764.1	734.8	698.6	675.9	672.5	681.6	691.8	694.1
30°	732.5	721.2	688.4	654.5	634.1	633.0	643.2	652.3	655.7
32.5°	681.6	671.4	643.2	609.2	591.2	591.2	601.4	609.2	612.6
35°	627.3	616.0	591.2	562.9	548.3	549.4	559.5	565.1	568.5
37.5°	562.9	559.5	540.3	516.5	506.5	508.7	516.5	521.1	524.5
40°	510.9	501.9	489.5	470.2	463.4	465.7	473.6	478.1	480.4
42.5°	454.4	448.8	438.6	425.0	420.5	423.9	430.7	434.1	432.9
45°	400.2	399.0	388.8	380.9	378.6	383.2	387.7	391.1	392.2
47.5°	360.6	356.1	347.0	341.4	339.1	343.6	348.2	350.4	350.4
50°	322.1	317.6	308.6	303.0	300.7	305.2	308.6	310.9	308.6
52.5°	283.7	279.2	271.2	264.6	263.4	265.7	266.8	267.8	270.1
55°	253.2	248.7	239.6	231.7	229.4	230.6	229.4	229.4	228.3
57.5°	223.8	219.2	210.3	201.2	197.8	196.7	193.3	192.2	191.0
60°	197.8	192.2	183.1	172.9	168.5	163.9	158.3	154.9	154.9
62.5°	172.9	167.3	157.1	148.1	141.3	133.4	124.3	119.9	119.9
65°	149.2	144.7	133.4	123.2	114.2	104.0	93.8	91.5	93.8
67.5°	126.6	122.0	110.8	100.6	89.3	76.8	67.9	67.9	70.1
70°	106.3	101.7	91.5	79.1	66.7	54.3	47.5	47.5	47.5
72.5°	87.0	82.5	71.3	59.9	47.5	35.0	31.6	32.7	31.6
75°	67.9	64.5	54.3	41.8	30.5	21.5	20.4	19.3	20.4
77.5°	50.9	47.5	38.4	27.1	17.0	12.5	11.3	11.3	11.3
80°	35.0	31.6	24.8	15.9	9.1	5.7	5.7	5.7	5.7
82.5°	21.5	18.1	13.6	7.9	3.4	3.4	3.4	3.4	3.4
85°	10.2	7.9	5.7	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	2.3	2.3	1.1	1.1	0.0	1.1	1.1	0.0	0.0
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)