

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: P581926

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581926
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-HM60525927-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1564.5 lumens
Efficiency: N/A
Efficacy: 78.2 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

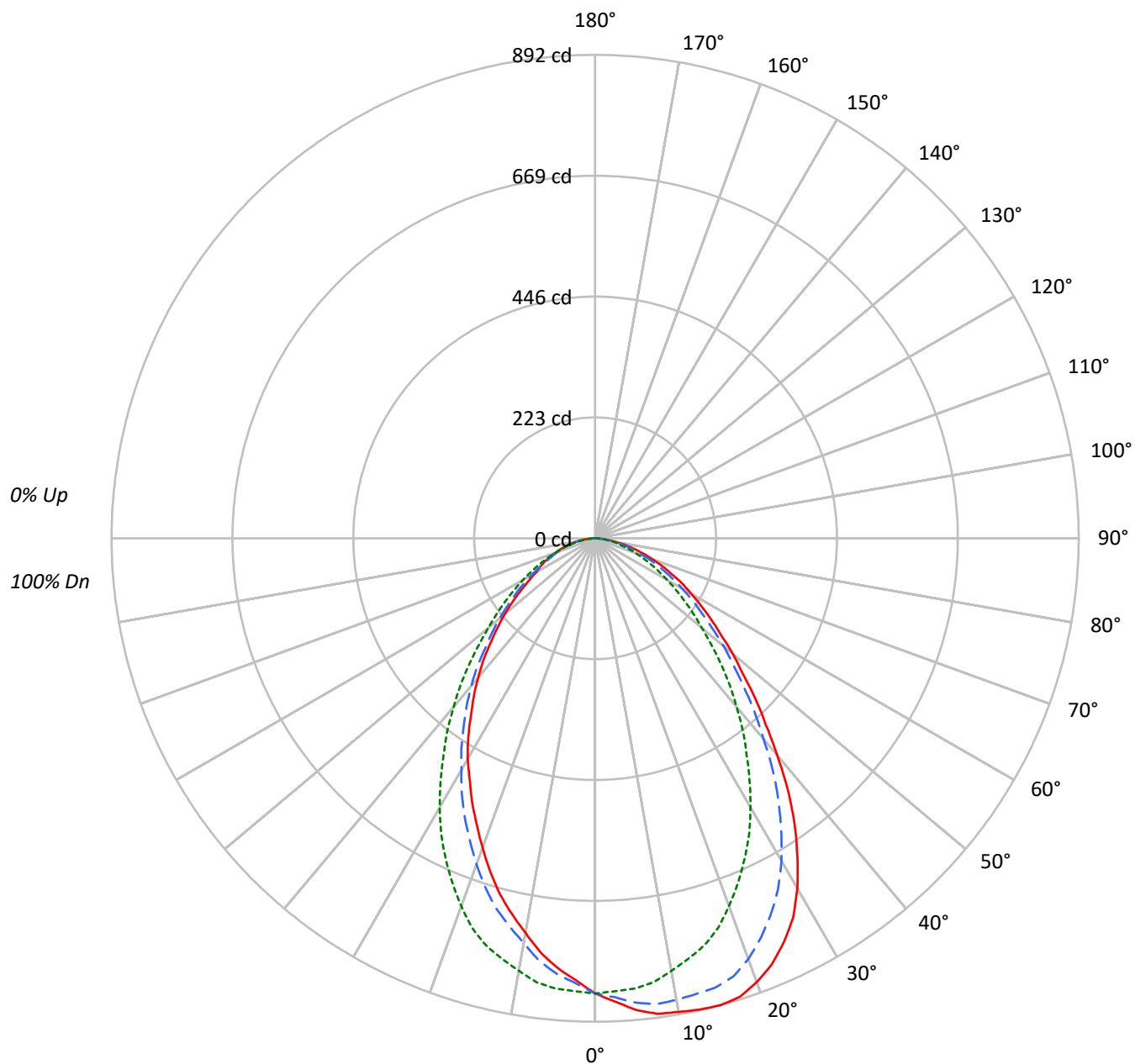
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	46043	46043	46043
5°	48085	45906	43793
10°	49398	45112	41154
15°	50619	44138	38553
20°	50842	42138	35417
25°	49775	39456	32476
30°	47229	36278	29764
35°	42891	32605	26702
40°	37370	29040	24024
45°	32344	25413	21118
50°	28246	21884	18515
55°	24964	19230	15885
60°	22432	16852	13749
65°	20093	14671	13348
70°	17936	12502	12502
75°	15568	10527	11734
80°	12470	8903	10702
85°	8554	7862	9246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	5.0
10°-20°	219.4	14.0
20°-30°	305.8	19.5
30°-40°	315.1	20.1
40°-50°	261.1	16.7
50°-60°	187.7	12.0
60°-70°	119.5	7.6
70°-80°	61.4	3.9
80°-90°	15.6	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°	604.1	38.6
0°-40°	919.2	58.8
0°-60°	1368.0	87.4
0°-90°	1564.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1564.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	840	840	840	840	840	
5°	874	860	834	807	796	84
15°	892	858	778	706	679	251
25°	823	766	652	568	537	377
35°	641	589	487	423	399	398
45°	417	388	328	286	272	323
55°	261	240	201	179	166	235
65°	155	138	113	98	103	155
75°	74	63	50	52	55	78
85°	14	12	12	14	15	17
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°	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9
2.5°	855.8	852.4	847.8	843.3	836.5	828.6	821.8	819.5	816.1
5°	873.8	869.2	860.2	849.0	834.2	819.5	807.1	799.2	795.8
7.5°	885.1	879.4	867.0	847.8	826.3	804.9	786.8	775.4	770.9
10°	887.4	881.7	864.7	838.8	810.4	781.1	758.5	744.9	739.3
12.5°	890.8	882.8	861.3	830.8	794.7	760.8	732.5	715.5	709.9
15°	891.9	882.8	858.0	820.6	777.7	737.0	706.5	686.1	679.3
17.5°	887.4	877.2	847.8	802.6	754.0	711.1	674.8	653.4	644.3
20°	871.5	860.2	826.3	775.4	722.3	677.1	639.8	617.1	607.1
22.5°	851.2	836.5	798.1	743.8	688.4	640.9	603.7	581.0	570.8
25°	822.9	809.4	766.4	708.8	652.3	602.5	568.5	544.9	536.9
27.5°	790.2	774.3	730.2	672.5	614.9	565.1	532.4	511.0	500.8
30°	746.1	731.4	687.3	629.6	573.1	526.7	492.9	474.7	470.2
32.5°	694.1	681.6	638.7	584.4	530.1	487.2	459.0	439.7	435.2
35°	640.9	626.2	588.9	538.1	487.2	448.8	422.7	405.8	399.0
37.5°	583.3	569.7	538.1	492.9	447.6	411.5	388.8	374.1	367.4
40°	522.2	512.1	482.7	446.5	405.8	374.1	355.0	342.5	335.7
42.5°	465.8	455.6	435.2	401.3	367.4	339.1	322.1	310.9	305.2
45°	417.2	408.1	387.7	358.4	327.8	304.1	286.0	278.0	272.4
47.5°	368.5	364.0	345.9	318.8	290.5	270.1	257.8	248.7	244.2
50°	331.2	325.5	308.6	280.3	256.6	240.8	229.4	221.5	217.1
52.5°	292.8	287.1	271.2	247.6	228.3	213.7	202.4	195.6	191.0
55°	261.2	256.6	239.6	218.2	201.2	188.8	178.6	170.7	166.2
57.5°	231.7	227.2	211.4	191.0	176.3	165.1	156.0	149.2	143.6
60°	204.6	201.2	185.4	166.2	153.7	142.4	134.5	128.8	125.4
62.5°	180.8	174.0	160.5	143.6	132.2	123.2	115.3	111.9	114.2
65°	154.9	151.5	137.9	123.2	113.1	104.0	98.3	100.6	102.9
67.5°	133.4	128.8	117.6	104.0	94.9	88.1	84.7	89.3	90.4
70°	111.9	107.4	97.2	85.9	78.0	73.5	73.5	76.8	78.0
72.5°	91.5	88.1	79.1	70.1	64.5	61.1	63.3	65.6	66.7
75°	73.5	70.1	63.3	55.4	49.7	49.7	52.0	54.3	55.4
77.5°	56.5	54.3	47.5	41.8	39.5	39.5	41.8	42.9	44.1
80°	39.5	37.3	33.9	30.5	28.2	30.5	32.7	32.7	33.9
82.5°	25.9	24.8	22.7	20.4	20.4	21.5	22.7	23.8	23.8
85°	13.6	13.6	12.5	11.3	12.5	13.6	13.6	14.7	14.7
87.5°	4.5	4.5	4.5	4.5	5.7	5.7	5.7	5.7	5.7
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)