

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: P581925

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1432.2 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

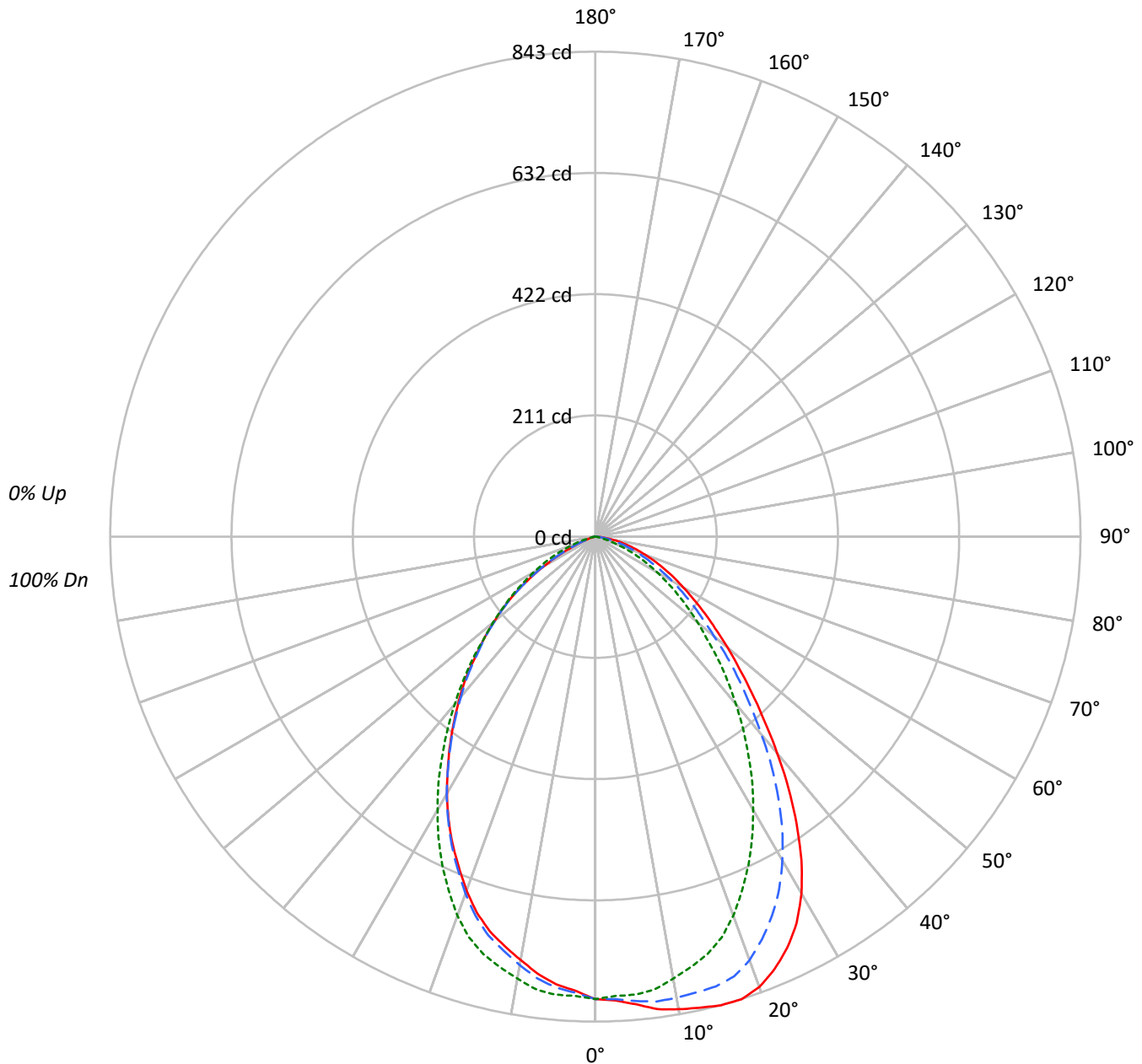
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44064	44064	44064
5°	44910	43980	42984
10°	46436	43419	41594
15°	47861	42662	40290
20°	48602	40889	38182
25°	47725	38083	35554
30°	45361	34708	32632
35°	40776	31019	29426
40°	35187	27179	26292
45°	29794	23398	22785
50°	25551	19761	19564
55°	22145	16630	15990
60°	19330	13519	11403
65°	17006	10403	6304
70°	14666	6876	3093
75°	12454	3368	1207
80°	9629	1421	726
85°	5724	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	5.3
10°-20°	214.5	15.0
20°-30°	302.0	21.1
30°-40°	308.6	21.5
40°-50°	248.8	17.4
50°-60°	166.9	11.7
60°-70°	84.4	5.9
70°-80°	27.0	1.9
80°-90°	4.2	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°	592.4	41.4
0°-40°	901.0	62.9
0°-60°	1316.6	91.9
0°-90°	1432.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	804	804	804	804	804	
5°	816	810	799	787	781	79
15°	843	809	752	718	710	238
25°	789	727	630	591	588	361
35°	609	554	464	438	440	379
45°	384	354	302	292	294	299
55°	232	206	174	166	167	209
65°	131	108	80	53	49	131
75°	59	42	16	6	6	63
85°	9	4	1	1	1	12
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°	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8
2.5°	807.1	806.0	804.9	802.6	799.2	795.8	793.6	791.3	790.2
5°	816.1	813.9	810.5	806.0	799.2	791.3	786.8	782.2	781.1
7.5°	828.6	824.0	815.0	804.9	793.6	782.2	774.3	769.8	766.4
10°	834.2	826.3	813.9	797.0	780.0	766.4	756.3	749.5	747.2
12.5°	838.8	829.7	811.7	789.0	766.4	748.3	737.0	731.4	729.1
15°	843.3	834.2	809.4	780.0	751.7	730.2	717.8	712.2	709.9
17.5°	843.3	830.8	801.5	764.2	730.2	704.3	691.8	686.1	685.0
20°	833.1	819.5	783.4	739.3	700.9	671.4	660.2	656.8	654.5
22.5°	813.9	798.1	757.4	707.7	665.9	637.5	625.1	622.8	620.5
25°	789.0	773.2	726.8	673.7	629.6	601.4	591.2	588.9	587.8
27.5°	757.4	740.4	691.8	637.5	590.1	563.0	553.9	553.9	552.8
30°	716.6	697.5	650.0	595.7	548.3	523.3	516.6	516.6	515.5
32.5°	666.9	647.7	604.8	552.8	507.6	481.5	475.9	478.1	477.0
35°	609.3	593.5	553.9	503.1	463.5	439.7	437.5	439.7	439.7
37.5°	551.7	536.9	503.1	459.0	421.6	400.2	400.2	403.6	402.4
40°	491.7	480.4	448.8	410.4	379.8	365.2	362.9	366.3	367.4
42.5°	435.2	426.1	399.0	367.4	340.2	325.5	328.9	331.2	332.3
45°	384.3	375.2	353.8	321.0	301.8	291.6	291.6	295.0	293.9
47.5°	339.1	332.3	310.9	279.2	262.3	257.8	260.0	262.3	262.3
50°	299.6	289.4	269.1	244.2	231.7	226.0	228.3	229.4	229.4
52.5°	262.3	255.5	235.1	212.6	201.2	197.8	197.8	199.0	199.0
55°	231.7	223.8	205.8	183.1	174.0	169.6	166.2	165.1	167.3
57.5°	202.4	195.6	178.6	157.1	147.0	142.4	135.6	133.4	135.6
60°	176.3	170.7	153.7	133.4	123.3	114.2	106.3	101.7	104.0
62.5°	153.7	147.0	130.0	113.1	101.7	91.5	79.1	72.4	75.7
65°	131.1	125.4	108.5	91.5	80.2	67.9	53.1	48.6	48.6
67.5°	110.8	105.1	89.3	74.6	61.1	46.3	32.7	31.6	32.7
70°	91.5	85.9	72.4	57.7	42.9	28.2	19.3	19.3	19.3
72.5°	75.7	69.0	56.5	41.8	27.1	14.7	10.2	11.3	11.3
75°	58.8	53.1	41.8	28.2	15.9	6.8	5.7	5.7	5.7
77.5°	44.1	39.5	29.3	18.1	7.9	2.3	2.3	2.3	2.3
80°	30.5	25.9	19.3	11.3	4.5	2.3	2.3	2.3	2.3
82.5°	18.1	15.9	11.3	5.7	2.3	1.1	1.1	1.1	1.1
85°	9.1	7.9	4.5	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)