

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: P581817

Luminaire Tested: **HC615D010-HM60525935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581817
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: HC615D010-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1219.2 lumens
Efficiency: N/A
Efficacy: 87.1 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

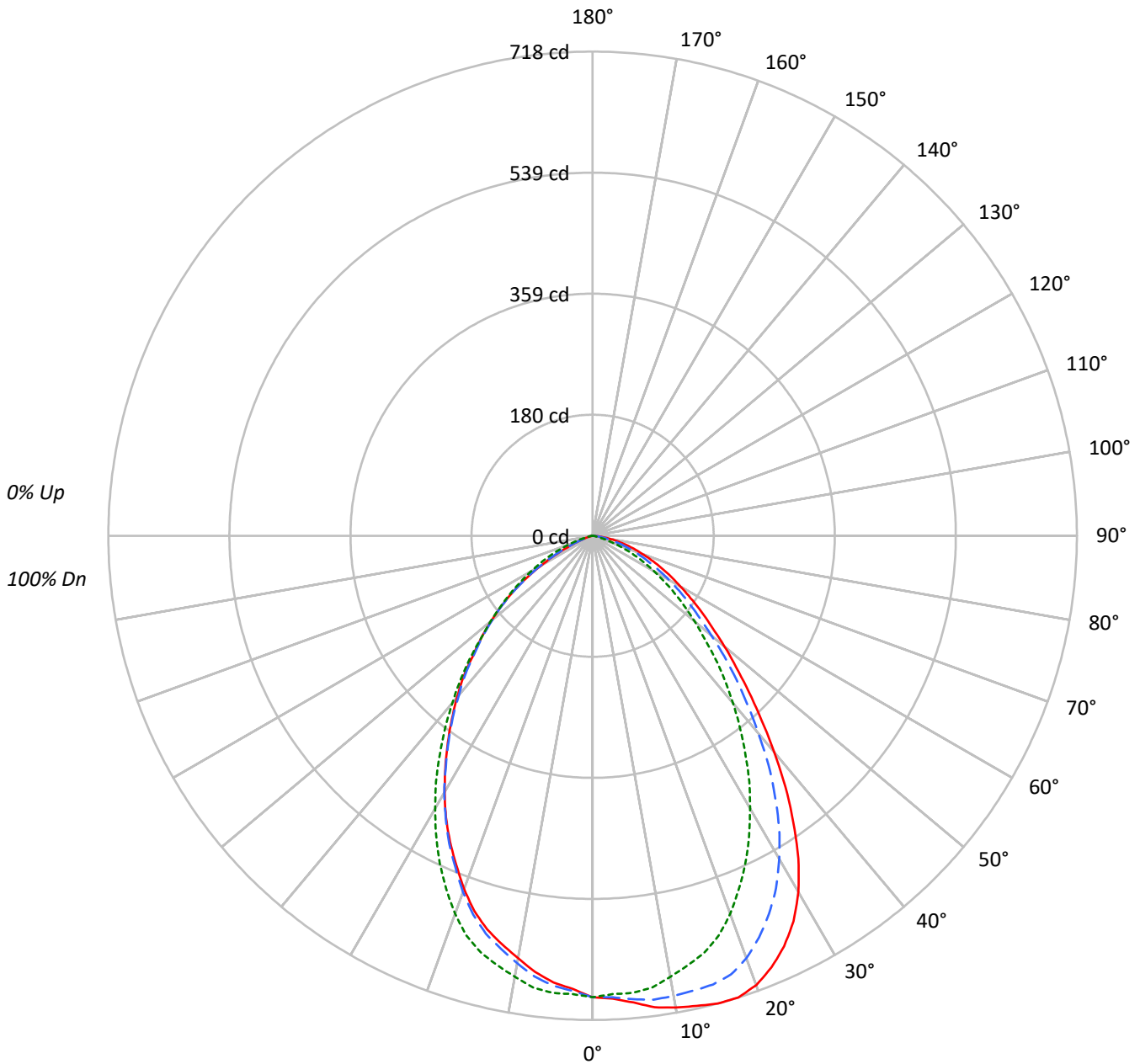
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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	67	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°	37508	37508	37508
5°	38229	37437	36589
10°	39534	36962	35409
15°	40744	36317	34296
20°	41368	34805	32506
25°	40629	32415	30268
30°	38620	29543	27776
35°	34713	26401	25049
40°	29956	23143	22378
45°	25367	19925	19397
50°	21748	16827	16656
55°	18857	14164	13610
60°	16468	11501	9703
65°	14476	8860	5370
70°	12502	5850	2613
75°	10612	2859	1017
80°	8208	1231	600
85°	4843	566	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	5.3
10°-20°	182.6	15.0
20°-30°	257.1	21.1
30°-40°	262.7	21.5
40°-50°	211.8	17.4
50°-60°	142.1	11.7
60°-70°	71.9	5.9
70°-80°	23.0	1.9
80°-90°	3.5	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°	504.3	41.4
0°-40°	766.9	62.9
0°-60°	1120.8	91.9
0°-90°	1219.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	684	684	684	684	684	
5°	695	690	680	670	665	67
15°	718	689	640	611	604	203
25°	672	619	536	503	500	307
35°	519	472	394	372	374	323
45°	327	301	257	248	250	254
55°	197	175	148	141	142	178
65°	112	92	68	45	41	111
75°	50	36	14	5	5	54
85°	8	4	1	1	1	10
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°	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2
2.5°	687.0	686.1	685.1	683.2	680.3	677.5	675.6	673.6	672.6
5°	694.7	692.8	690.0	686.1	680.3	673.6	669.8	665.9	664.9
7.5°	705.3	701.5	693.8	685.1	675.6	665.9	659.2	655.3	652.4
10°	710.2	703.5	692.8	678.4	664.0	652.4	643.8	638.0	636.1
12.5°	714.0	706.3	690.9	671.7	652.4	637.1	627.4	622.5	620.6
15°	717.9	710.2	688.9	664.0	639.9	621.6	611.1	606.2	604.3
17.5°	717.9	707.2	682.2	650.5	621.6	599.5	589.0	584.1	583.2
20°	709.1	697.7	666.8	629.4	596.6	571.6	561.9	559.1	557.2
22.5°	692.8	679.4	644.7	602.3	566.8	542.8	532.1	530.2	528.2
25°	671.7	658.2	618.7	573.5	535.9	511.9	503.3	501.3	500.4
27.5°	644.7	630.3	589.0	542.8	502.4	479.2	471.5	471.5	470.6
30°	610.1	593.7	553.3	507.1	466.7	445.5	439.8	439.8	438.8
32.5°	567.7	551.4	514.8	470.6	432.1	410.0	405.1	407.0	406.1
35°	518.7	505.2	471.5	428.2	394.5	374.3	372.4	374.3	374.3
37.5°	469.5	457.1	428.2	390.7	358.9	340.6	340.6	343.6	342.5
40°	418.6	408.9	382.0	349.4	323.4	310.8	308.8	311.8	312.7
42.5°	370.5	362.7	339.7	312.7	289.7	277.2	280.0	281.9	283.0
45°	327.2	319.5	301.2	273.3	257.0	248.2	248.2	251.2	250.2
47.5°	288.6	283.0	264.6	237.7	223.3	219.4	221.3	223.3	223.3
50°	255.0	246.3	229.0	207.8	197.3	192.5	194.4	195.3	195.3
52.5°	223.3	217.5	200.1	180.9	171.3	168.4	168.4	169.3	169.3
55°	197.3	190.6	175.1	155.8	148.2	144.4	141.4	140.5	142.4
57.5°	172.3	166.5	152.1	133.7	125.1	121.2	115.4	113.5	115.4
60°	150.2	145.3	130.9	113.5	104.9	97.2	90.5	86.6	88.5
62.5°	130.9	125.1	110.7	96.2	86.6	78.0	67.3	61.6	64.5
65°	111.6	106.8	92.4	78.0	68.3	57.8	45.2	41.4	41.4
67.5°	94.3	89.4	76.0	63.6	52.0	39.5	27.9	26.9	27.9
70°	78.0	73.1	61.6	49.0	36.5	24.1	16.3	16.3	16.3
72.5°	64.5	58.7	48.1	35.6	23.0	12.5	8.6	9.6	9.6
75°	50.1	45.2	35.6	24.1	13.5	5.8	4.8	4.8	4.8
77.5°	37.6	33.7	25.0	15.4	6.7	1.9	1.9	1.9	1.9
80°	26.0	22.1	16.3	9.6	3.9	1.9	1.9	1.9	1.9
82.5°	15.4	13.5	9.6	4.8	1.9	0.9	0.9	0.9	0.9
85°	7.7	6.7	3.9	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	1.9	1.9	0.9	0.9	0.0	0.9	0.9	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)