

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: P581792

Luminaire Tested: **HC615D010-HM60525930-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1361.9 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

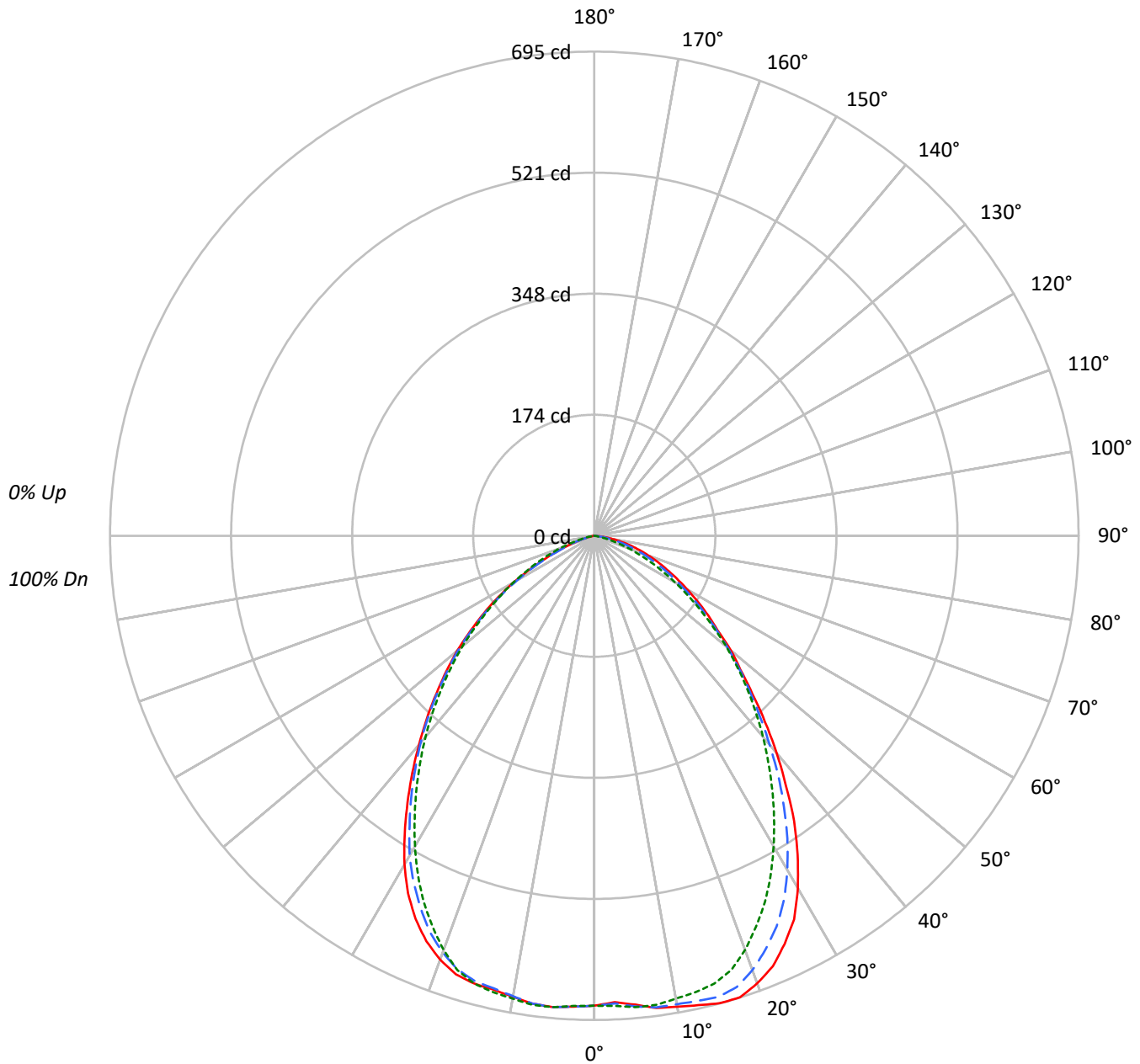
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86		100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74		93	85	78	73		82	76	72		79	75	71		77	73	69
4	88	78	70	64		86	76	69	64		74	68	63		72	67	62		70	65	61
5	82	70	62	57		80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50		74	63	56	50		62	55	50		60	54	49		58	53	49
7	71	59	51	45		69	58	50	45		56	50	45		55	49	45		54	48	44
8	66	54	46	41		65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37		61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34		57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36982	36982	36982
5°	37178	37376	37376
10°	38209	37552	37402
15°	39427	37770	37770
20°	39886	36899	37757
25°	39093	35052	36716
30°	36974	32575	34486
35°	33462	29787	31266
40°	29112	26950	27995
45°	24879	24026	24879
50°	21824	21057	21910
55°	19048	17739	18427
60°	16841	14736	14538
65°	14943	11623	9962
70°	13191	8207	6011
75°	11226	4639	2902
80°	8398	1421	852
85°	4592	566	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	4.8
10°-20°	189.3	13.9
20°-30°	276.5	20.3
30°-40°	290.0	21.3
40°-50°	244.3	17.9
50°-60°	171.2	12.6
60°-70°	91.8	6.7
70°-80°	30.8	2.3
80°-90°	3.3	0.2
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°	530.6	39.0
0°-40°	820.6	60.3
0°-60°	1236.1	90.8
0°-90°	1361.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	675	675	675	675	675	
5°	676	678	679	679	679	65
15°	695	686	666	662	666	196
25°	646	619	580	590	607	296
35°	500	474	445	458	467	310
45°	321	315	310	318	321	250
55°	199	193	186	189	193	179
65°	115	105	90	74	77	115
75°	53	41	22	14	14	56
85°	7	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°	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6
2.5°	670.1	670.1	671.9	673.7	675.6	675.6	676.5	677.4	676.5
5°	675.6	675.6	678.3	679.2	679.2	678.3	679.2	679.2	679.2
7.5°	683.7	681.9	682.8	681.0	679.2	678.3	677.4	677.4	677.4
10°	686.4	684.6	682.8	679.2	674.6	671.9	671.0	671.9	671.9
12.5°	690.2	688.4	683.7	676.5	671.0	666.4	665.5	667.3	667.3
15°	694.7	692.9	685.5	673.7	665.5	660.9	661.8	663.6	665.5
17.5°	694.7	691.1	679.2	663.6	653.6	649.0	652.6	657.3	660.0
20°	683.7	680.1	663.6	644.5	632.5	629.8	636.3	644.5	647.2
22.5°	669.1	661.8	642.6	619.8	607.0	607.0	616.1	626.2	629.8
25°	646.3	640.8	618.8	592.4	579.5	578.6	589.6	603.4	607.0
27.5°	620.7	613.4	589.6	562.2	548.4	549.3	561.3	575.0	578.6
30°	584.1	575.0	554.0	527.4	514.6	518.4	530.2	540.3	544.8
32.5°	543.0	534.8	515.5	490.9	479.9	483.6	493.6	502.8	506.4
35°	500.0	490.9	474.4	452.5	445.1	448.8	458.0	465.2	467.2
37.5°	451.6	445.1	433.3	416.0	410.4	415.0	422.3	426.9	428.7
40°	406.8	401.3	391.2	378.4	376.6	380.2	387.6	390.3	391.2
42.5°	362.9	358.3	352.0	342.8	342.8	346.4	352.9	354.7	355.6
45°	320.9	318.1	315.4	308.0	309.9	314.5	318.1	320.9	320.9
47.5°	284.3	285.2	281.6	276.0	277.8	282.5	285.2	287.9	287.9
50°	255.9	253.2	249.6	244.0	246.9	250.5	254.1	255.9	256.9
52.5°	223.0	222.1	219.4	213.0	214.9	216.7	220.3	223.0	223.9
55°	199.3	196.6	192.8	185.6	185.6	187.4	189.2	191.0	192.8
57.5°	176.4	173.7	168.2	159.9	159.0	159.0	158.1	159.9	162.8
60°	153.6	152.7	144.5	137.1	134.4	131.7	128.0	128.9	132.6
62.5°	133.5	131.7	124.3	115.2	109.6	105.1	100.6	99.7	103.3
65°	115.2	113.4	105.1	96.0	89.6	81.4	74.0	74.0	76.8
67.5°	98.7	95.1	87.7	77.7	69.5	59.5	52.1	53.9	54.8
70°	82.3	79.6	71.3	61.3	51.2	41.1	36.5	37.5	37.5
72.5°	67.6	64.0	55.7	45.7	35.6	26.6	24.6	23.7	23.7
75°	53.0	49.4	41.1	31.1	21.9	15.5	13.7	13.7	13.7
77.5°	38.4	35.6	28.4	19.2	11.9	7.3	6.4	5.4	5.4
80°	26.6	23.7	17.4	10.1	4.5	2.7	2.7	2.7	2.7
82.5°	15.5	12.8	8.2	4.5	1.8	0.9	0.9	0.9	0.9
85°	7.3	5.4	3.6	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	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)