

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: P581801

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1309.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

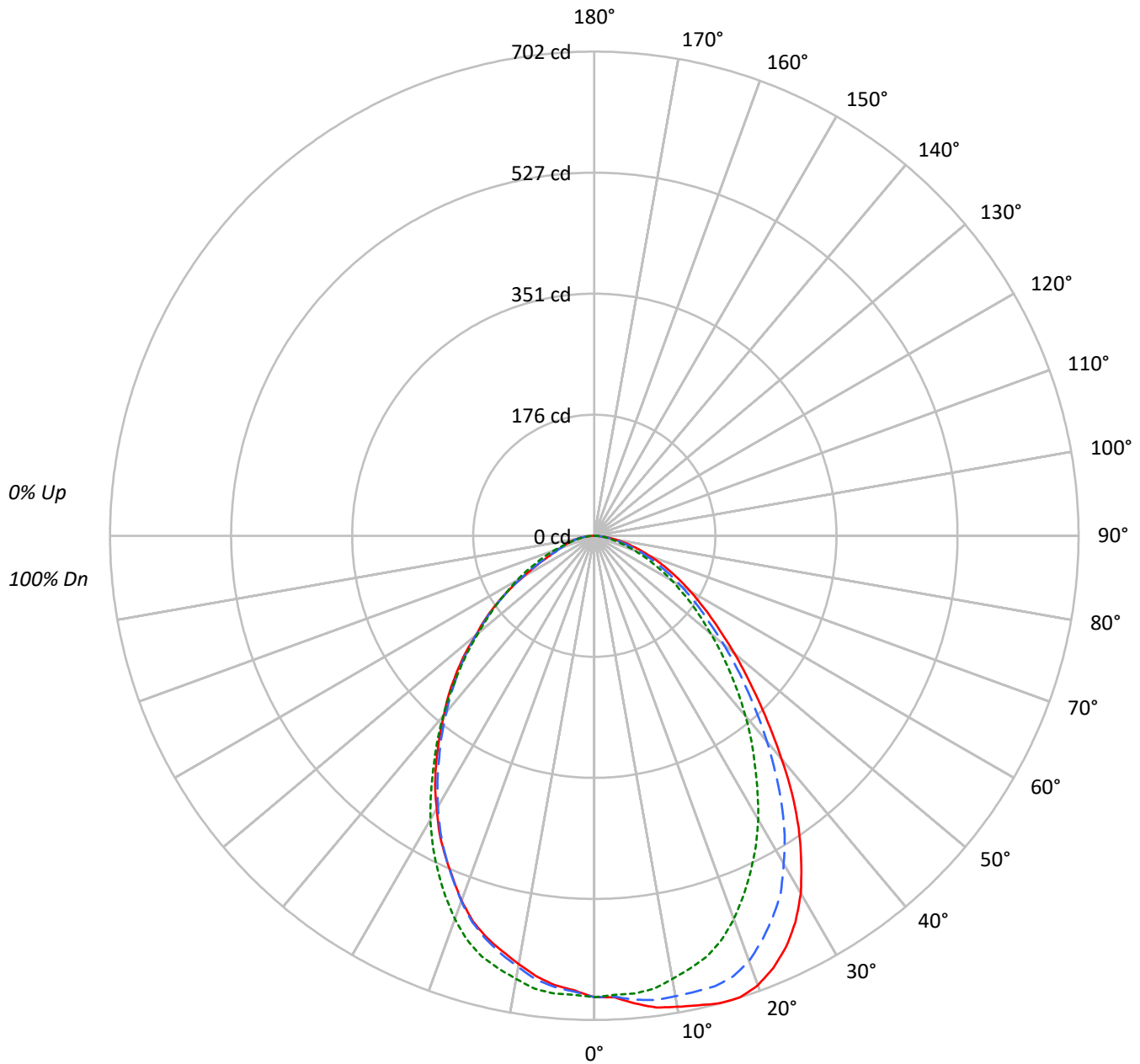
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	103	100	108	104	101	98		100	97	95			96	94	92			93
2	102	95	89	84	100	93	88	83		90	85	81			87	83	80			84
3	94	85	78	72	92	84	77	72		81	75	71			78	73	69			76
4	87	77	69	63	85	75	68	63		73	67	62			71	65	61			69
5	81	70	61	56	79	68	61	55		66	60	55			65	59	54			63
6	75	63	55	49	74	62	55	49		61	54	49			59	53	48			58
7	70	58	50	44	69	57	50	44		56	49	44			54	48	44			53
8	66	53	46	40	64	53	45	40		51	45	40			50	44	40			49
9	62	49	42	37	60	49	42	37		48	41	36			47	41	36			46
10	58	46	38	34	57	45	38	33		44	38	33			43	37	33			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36669	36669	36669
5°	37464	36655	36000
10°	38604	36316	35097
15°	39830	35834	34223
20°	40458	34490	32833
25°	39789	32445	30951
30°	37886	30074	28916
35°	34552	27144	26722
40°	30207	24389	24260
45°	26003	21460	21964
50°	22601	18703	19087
55°	19736	16420	16602
60°	17531	14220	13025
65°	15657	11973	9949
70°	13768	9809	8351
75°	11798	7731	7943
80°	9534	6630	7766
85°	6353	5787	6919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	4.8
10°-20°	180.3	13.8
20°-30°	257.4	19.6
30°-40°	269.6	20.6
40°-50°	227.0	17.3
50°-60°	161.6	12.3
60°-70°	94.6	7.2
70°-80°	44.7	3.4
80°-90°	11.5	0.9
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°	501.0	38.2
0°-40°	770.5	58.8
0°-60°	1159.1	88.5
0°-90°	1309.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	669	669	669	669	669	
5°	681	675	666	657	654	65
15°	702	676	631	606	603	198
25°	658	611	536	511	512	301
35°	516	473	406	392	399	321
45°	335	311	277	278	283	260
55°	206	189	172	172	174	186
65°	121	107	92	78	77	120
75°	56	47	36	36	38	60
85°	10	8	9	11	11	13
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°	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9
2.5°	669.8	669.8	668.9	667.9	666.1	663.4	661.6	659.8	659.8
5°	680.8	679.0	675.2	670.7	666.1	660.7	656.9	654.2	654.2
7.5°	689.9	686.2	679.0	670.7	662.5	655.1	648.8	645.1	644.2
10°	693.5	688.9	678.0	665.2	652.4	642.4	635.0	630.5	630.5
12.5°	697.2	691.7	677.1	658.8	642.4	628.7	621.3	617.7	616.8
15°	701.8	694.4	676.1	653.3	631.4	615.9	605.9	603.0	603.0
17.5°	701.8	692.6	669.8	641.5	614.0	596.7	587.6	584.8	585.7
20°	693.5	683.5	656.0	621.3	591.2	572.9	563.8	561.9	562.8
22.5°	678.0	666.1	635.0	597.6	564.7	545.5	537.3	537.3	536.4
25°	657.8	645.1	611.3	572.0	536.4	517.2	510.8	511.7	511.7
27.5°	631.4	618.6	584.8	542.8	507.1	487.9	483.4	485.2	486.1
30°	598.5	584.8	549.1	508.0	475.1	455.9	453.2	455.9	456.8
32.5°	558.3	548.2	513.5	471.5	440.4	423.9	423.0	425.9	429.5
35°	516.3	505.3	473.3	434.9	405.6	392.0	392.0	396.6	399.3
37.5°	470.6	459.6	430.4	398.4	373.8	360.9	362.7	367.3	368.2
40°	422.1	413.9	389.3	361.8	340.8	330.7	333.5	338.1	339.0
42.5°	376.5	369.1	349.0	324.4	308.8	301.6	305.2	310.6	312.5
45°	335.4	327.1	310.6	289.7	276.8	273.2	277.7	281.5	283.3
47.5°	297.8	290.6	276.8	257.6	248.6	246.7	251.3	253.1	254.9
50°	265.0	257.6	244.0	226.7	219.3	219.3	222.9	224.7	223.8
52.5°	233.0	226.7	213.8	199.2	194.7	194.7	197.4	198.3	200.1
55°	206.5	200.1	189.1	175.5	171.8	169.9	171.8	171.8	173.7
57.5°	181.8	176.4	166.3	153.6	148.9	147.1	146.2	145.3	147.1
60°	159.9	155.4	144.4	133.4	129.7	125.2	121.6	117.9	118.8
62.5°	139.8	135.2	125.2	114.2	110.5	104.2	99.7	95.0	96.8
65°	120.7	116.0	106.9	97.7	92.3	85.0	77.6	74.9	76.7
67.5°	103.3	99.7	90.5	81.4	76.7	68.6	61.2	61.2	62.1
70°	85.9	82.3	74.9	66.7	61.2	53.9	51.2	52.1	52.1
72.5°	70.4	67.6	60.3	53.0	47.6	42.9	42.9	43.8	44.7
75°	55.7	53.9	46.6	40.2	36.5	33.8	35.6	36.5	37.5
77.5°	42.9	40.2	34.7	30.2	27.5	28.4	30.2	31.1	32.0
80°	30.2	29.3	24.6	21.9	21.0	21.9	23.7	24.6	24.6
82.5°	19.2	18.3	15.5	14.6	14.6	15.5	17.4	17.4	17.4
85°	10.1	9.2	8.2	8.2	9.2	10.1	11.0	11.0	11.0
87.5°	3.6	2.7	3.6	3.6	4.5	4.5	4.5	4.5	4.5
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)