

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: P581584

Luminaire Tested: **HC610D010-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581584
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: HC610D010-HM60525830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1080.1 lumens
Efficiency: N/A
Efficacy: 109.1 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

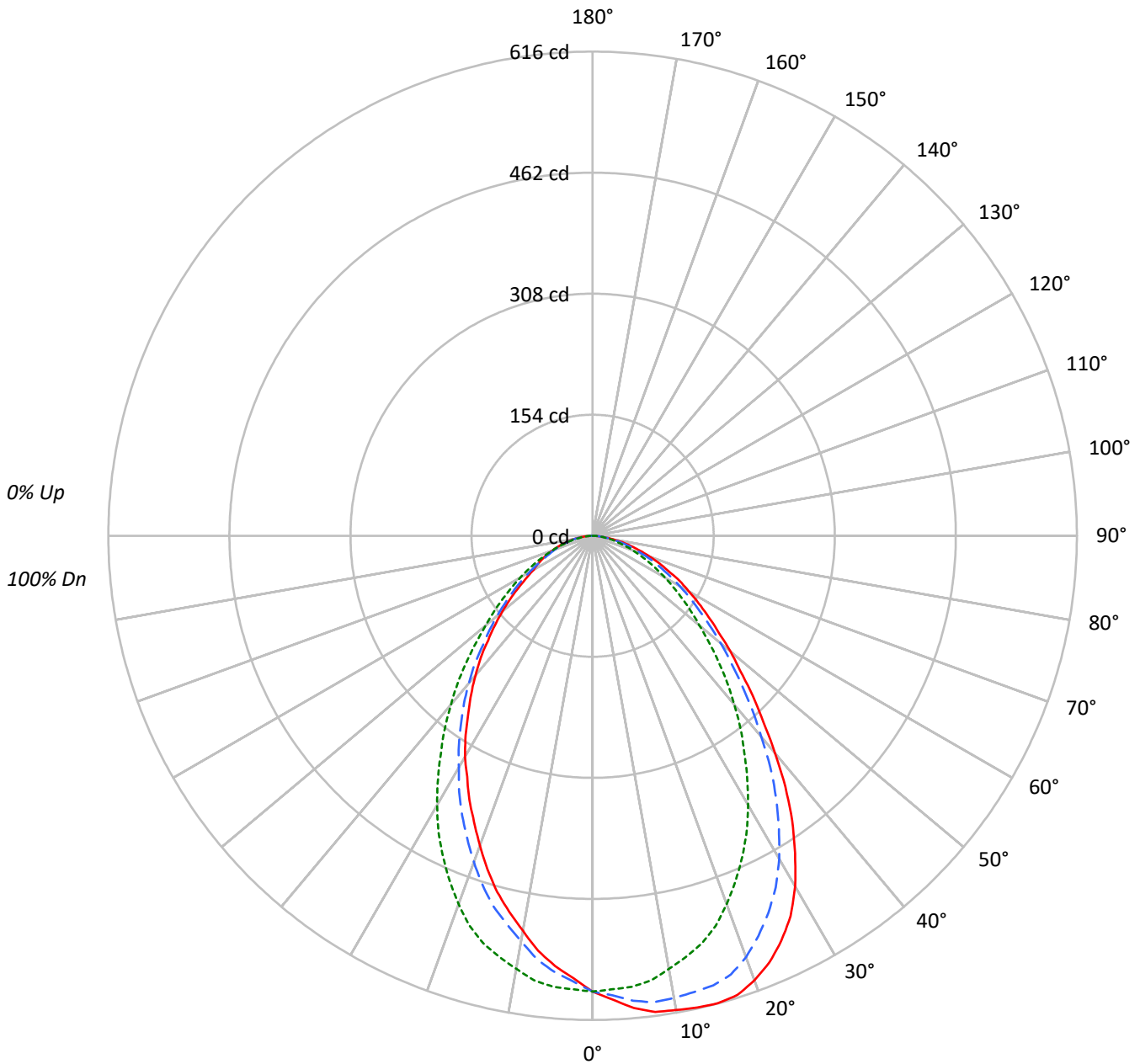
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	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°	31785	31785	31785
5°	33194	31697	30233
10°	34101	31145	28412
15°	34943	30471	26618
20°	35102	29088	24450
25°	34369	27237	22423
30°	32606	25042	20554
35°	29613	22506	18437
40°	25798	20052	16588
45°	22328	17544	14575
50°	19505	15113	12784
55°	17232	13276	10963
60°	15492	11644	9495
65°	13867	10118	9210
70°	12390	8639	8639
75°	10739	7265	8112
80°	8619	6156	7387
85°	5913	5409	6416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	5.0
10°-20°	151.5	14.0
20°-30°	211.1	19.5
30°-40°	217.5	20.1
40°-50°	180.3	16.7
50°-60°	129.6	12.0
60°-70°	82.5	7.6
70°-80°	42.4	3.9
80°-90°	10.8	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°	417.1	38.6
0°-40°	634.6	58.8
0°-60°	944.5	87.4
0°-90°	1080.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	580	580	580	580	580	
5°	603	594	576	557	549	58
15°	616	592	537	488	469	174
25°	568	529	450	393	371	260
35°	442	407	336	292	276	275
45°	288	268	226	197	188	223
55°	180	166	139	123	115	162
65°	107	95	78	68	71	107
75°	51	44	34	36	38	54
85°	9	9	9	9	10	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°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	590.8	588.4	585.2	582.2	577.5	572.0	567.4	565.8	563.4
5°	603.2	600.1	593.8	586.0	576.0	565.8	557.2	551.7	549.4
7.5°	611.1	607.2	598.6	585.2	570.4	555.7	543.1	535.3	532.3
10°	612.6	608.7	597.0	579.0	559.5	539.3	523.7	514.3	510.4
12.5°	614.9	609.5	594.6	573.6	548.6	525.2	505.7	494.0	490.0
15°	615.7	609.5	592.4	566.6	536.9	508.8	487.8	473.7	469.0
17.5°	612.6	605.6	585.2	554.1	520.5	490.8	465.9	451.1	444.9
20°	601.7	593.8	570.4	535.3	498.6	467.4	441.7	426.1	419.1
22.5°	587.6	577.5	550.9	513.5	475.2	442.5	416.7	401.2	394.0
25°	568.2	558.8	529.1	489.4	450.3	415.9	392.6	376.2	370.7
27.5°	545.5	534.5	504.2	464.3	424.5	390.2	367.6	352.7	345.7
30°	515.1	504.9	474.5	434.7	395.6	363.7	340.3	327.7	324.7
32.5°	479.2	470.6	440.9	403.4	366.0	336.3	316.8	303.6	300.4
35°	442.5	432.3	406.6	371.5	336.3	309.8	291.8	280.2	275.5
37.5°	402.7	393.4	371.5	340.3	309.0	284.0	268.5	258.3	253.7
40°	360.5	353.5	333.3	308.2	280.2	258.3	245.1	236.5	231.8
42.5°	321.5	314.5	300.4	277.0	253.7	234.1	222.4	214.6	210.7
45°	288.0	281.8	267.7	247.3	226.3	209.9	197.4	192.0	188.0
47.5°	254.4	251.3	238.9	220.1	200.6	186.6	178.0	171.7	168.6
50°	228.7	224.7	213.0	193.6	177.2	166.2	158.4	152.9	149.9
52.5°	202.2	198.2	187.3	170.9	157.7	147.5	139.7	135.0	131.9
55°	180.3	177.2	165.5	150.7	138.9	130.3	123.3	117.8	114.7
57.5°	160.0	156.9	145.9	131.9	121.7	114.0	107.7	103.0	99.2
60°	141.3	138.9	128.0	114.7	106.2	98.4	92.8	89.0	86.6
62.5°	124.9	120.2	110.8	99.2	91.4	85.0	79.6	77.3	78.8
65°	106.9	104.6	95.2	85.0	78.0	71.8	67.9	69.5	71.0
67.5°	92.0	89.0	81.2	71.8	65.5	60.9	58.5	61.7	62.5
70°	77.3	74.1	67.1	59.3	53.9	50.7	50.7	53.1	53.9
72.5°	63.2	60.9	54.7	48.3	44.5	42.1	43.7	45.3	46.1
75°	50.7	48.3	43.7	38.3	34.3	34.3	35.9	37.5	38.3
77.5°	39.1	37.5	32.8	28.9	27.3	27.3	28.9	29.7	30.5
80°	27.3	25.8	23.4	21.1	19.5	21.1	22.6	22.6	23.4
82.5°	18.0	17.2	15.6	14.0	14.0	14.8	15.6	16.4	16.4
85°	9.4	9.4	8.6	7.8	8.6	9.4	9.4	10.2	10.2
87.5°	3.2	3.2	3.2	3.2	3.8	3.8	3.8	3.8	3.8
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)