

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: P581585

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581585
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: HC610D010-HM60525830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1118.4 lumens
Efficiency: N/A
Efficacy: 113.0 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

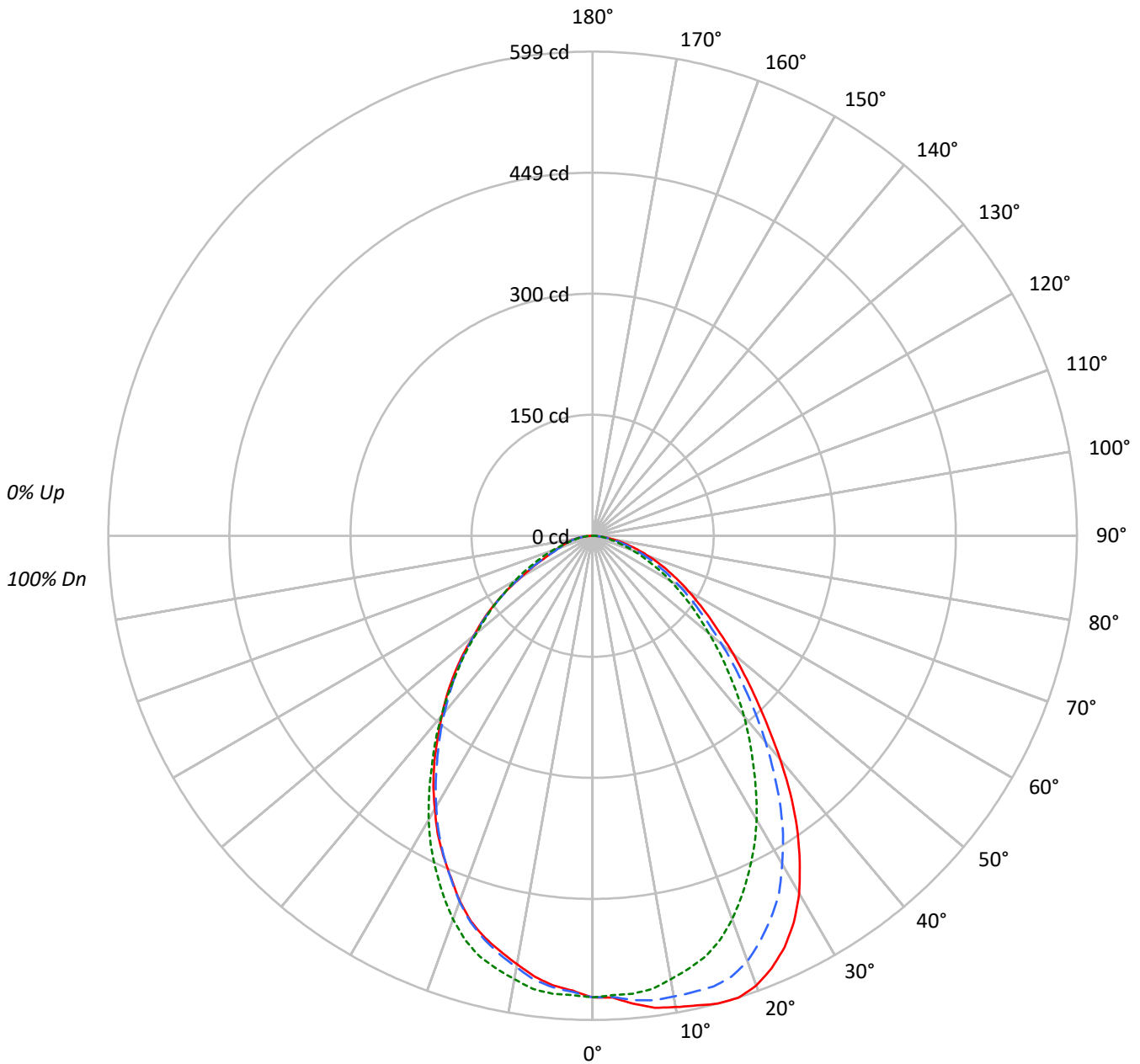
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31308	31308	31308
5°	31983	31295	30734
10°	32960	31011	29965
15°	34007	30596	29223
20°	34542	29449	28032
25°	33976	27697	26421
30°	32347	25681	24694
35°	29500	23182	22821
40°	25791	20825	20717
45°	22196	18327	18746
50°	19300	15965	16298
55°	16860	14021	14164
60°	14966	12148	11118
65°	13361	10222	8496
70°	11765	8383	7133
75°	10061	6608	6778
80°	8113	5683	6661
85°	5409	4906	5913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	4.8
10°-20°	153.9	13.8
20°-30°	219.7	19.6
30°-40°	230.2	20.6
40°-50°	193.8	17.3
50°-60°	137.9	12.3
60°-70°	80.7	7.2
70°-80°	38.2	3.4
80°-90°	9.8	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°	427.7	38.2
0°-40°	657.9	58.8
0°-60°	989.6	88.5
0°-90°	1118.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1118.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	571	571	571	571	571	
5°	581	576	569	561	558	56
15°	599	577	539	517	515	169
25°	562	522	458	436	437	257
35°	441	404	346	335	341	274
45°	286	265	236	237	242	222
55°	176	162	147	147	148	159
65°	103	91	79	66	66	103
75°	48	40	31	30	32	51
85°	9	7	8	9	9	11
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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	571.9	571.9	571.1	570.3	568.7	566.3	564.9	563.3	563.3
5°	581.2	579.7	576.5	572.7	568.7	564.1	560.9	558.5	558.5
7.5°	589.0	585.9	579.7	572.7	565.5	559.3	553.9	550.8	550.0
10°	592.1	588.2	578.9	567.9	557.1	548.5	542.2	538.3	538.3
12.5°	595.2	590.6	578.1	562.5	548.5	536.7	530.5	527.4	526.6
15°	599.2	592.9	577.3	557.8	539.1	525.8	517.2	514.9	514.9
17.5°	599.2	591.4	571.9	547.7	524.2	509.4	501.6	499.3	500.1
20°	592.1	583.5	560.1	530.5	504.8	489.1	481.3	479.7	480.5
22.5°	578.9	568.7	542.2	510.2	482.1	465.7	458.7	458.7	457.9
25°	561.7	550.8	522.0	488.3	457.9	441.6	436.0	436.8	436.8
27.5°	539.1	528.2	499.3	463.4	433.0	416.6	412.7	414.2	415.0
30°	511.0	499.3	468.9	433.8	405.7	389.3	386.9	389.3	390.1
32.5°	476.7	468.1	438.4	402.5	376.1	362.0	361.2	363.6	366.7
35°	440.8	431.4	404.1	371.3	346.4	334.7	334.7	338.6	341.0
37.5°	401.7	392.5	367.4	340.2	319.1	308.1	309.7	313.6	314.4
40°	360.4	353.4	332.4	308.9	291.0	282.4	284.7	288.7	289.5
42.5°	321.4	315.1	298.1	277.0	263.6	257.4	260.6	265.2	266.8
45°	286.3	279.3	265.2	247.3	236.4	233.3	237.2	240.3	241.8
47.5°	254.4	248.1	236.4	219.9	212.2	210.7	214.5	216.1	217.7
50°	226.3	219.9	208.3	193.5	187.2	187.2	190.4	191.9	191.1
52.5°	198.9	193.5	182.6	170.0	166.2	166.2	168.6	169.2	170.8
55°	176.4	170.8	161.5	149.8	146.7	145.1	146.7	146.7	148.2
57.5°	155.2	150.6	142.0	131.1	127.1	125.7	124.9	124.1	125.7
60°	136.5	132.7	123.3	113.9	110.8	106.9	103.8	100.6	101.4
62.5°	119.3	115.5	106.9	97.5	94.4	89.0	85.0	81.2	82.7
65°	103.0	99.0	91.2	83.4	78.8	72.6	66.3	64.0	65.5
67.5°	88.2	85.0	77.2	69.4	65.5	58.5	52.3	52.3	53.1
70°	73.4	70.2	64.0	56.9	52.3	46.1	43.7	44.5	44.5
72.5°	60.1	57.7	51.5	45.3	40.5	36.7	36.7	37.5	38.3
75°	47.5	46.1	39.7	34.3	31.2	28.9	30.5	31.2	32.0
77.5°	36.7	34.3	29.7	25.7	23.4	24.2	25.7	26.5	27.3
80°	25.7	25.0	21.1	18.7	18.0	18.7	20.3	21.1	21.1
82.5°	16.4	15.6	13.2	12.5	12.5	13.2	14.8	14.8	14.8
85°	8.6	7.8	7.0	7.0	7.8	8.6	9.4	9.4	9.4
87.5°	3.2	2.4	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)