

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: P581595

Luminaire Tested: **HC610D010-HM60525835-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581595
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: HC610D010-HM60525835-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1181.5 lumens
Efficiency: N/A
Efficacy: 119.3 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

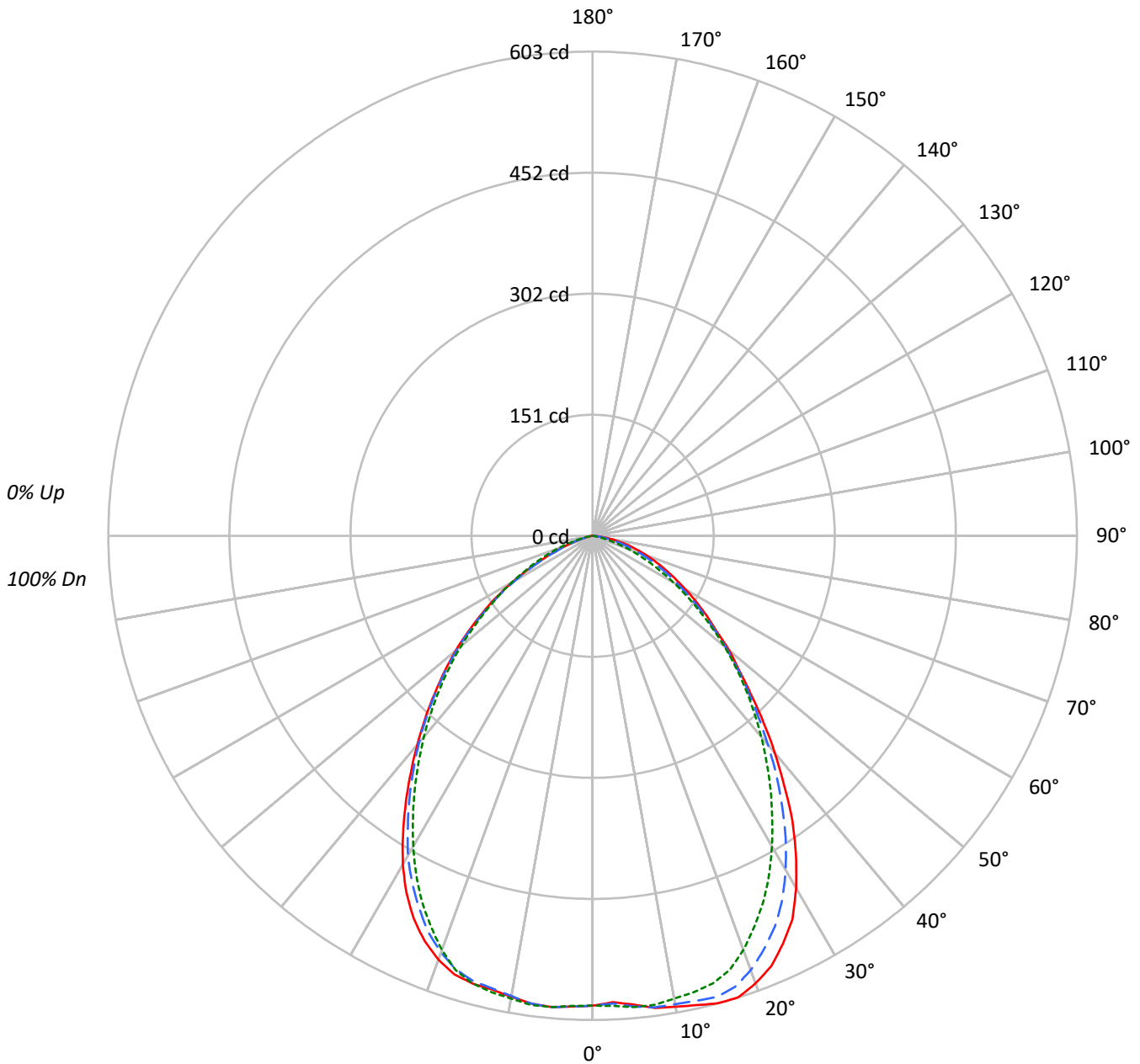
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	32081	32081	32081
5°	32247	32423	32423
10°	33149	32576	32448
15°	34206	32764	32764
20°	34606	32016	32757
25°	33915	30407	31847
30°	32075	28264	29916
35°	29031	25846	27124
40°	25247	23380	24288
45°	21584	20839	21584
50°	18933	18260	19002
55°	16525	15388	15990
60°	14604	12784	12609
65°	12972	10092	8639
70°	11428	7117	5209
75°	9743	4024	2521
80°	7261	1263	758
85°	3963	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	4.8
10°-20°	164.2	13.9
20°-30°	239.9	20.3
30°-40°	251.6	21.3
40°-50°	212.0	17.9
50°-60°	148.5	12.6
60°-70°	79.6	6.7
70°-80°	26.7	2.3
80°-90°	2.9	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°	460.3	39.0
0°-40°	711.9	60.2
0°-60°	1072.3	90.8
0°-90°	1181.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1181.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	585	585	585	585	585	
5°	586	588	589	589	589	56
15°	603	595	577	574	577	170
25°	561	537	503	511	526	257
35°	434	412	386	397	405	269
45°	278	274	269	276	278	217
55°	173	167	161	164	167	156
65°	100	91	78	64	67	100
75°	46	36	19	12	12	49
85°	6	3	1	1	1	9
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°	585.2	585.2	585.2	585.2	585.2	585.2	585.2	585.2	585.2
2.5°	581.3	581.3	582.9	584.5	586.0	586.0	586.8	587.6	586.8
5°	586.0	586.0	588.4	589.2	589.2	588.4	589.2	589.2	589.2
7.5°	593.2	591.6	592.4	590.8	589.2	588.4	587.6	587.6	587.6
10°	595.5	594.0	592.4	589.2	585.2	582.9	582.1	582.9	582.9
12.5°	598.7	597.1	593.2	586.8	582.1	578.1	577.3	578.9	578.9
15°	602.7	601.1	594.8	584.5	577.3	573.4	574.2	575.7	577.3
17.5°	602.7	599.5	589.2	575.7	567.0	563.1	566.2	570.2	572.6
20°	593.2	590.0	575.7	559.1	548.8	546.4	552.0	559.1	561.5
22.5°	580.5	574.2	557.5	537.7	526.5	526.5	534.5	543.2	546.4
25°	560.7	555.9	536.9	513.8	502.7	501.9	511.4	523.3	526.5
27.5°	538.5	532.2	511.4	487.7	475.8	476.6	486.9	498.8	501.9
30°	506.7	498.8	480.5	457.6	446.5	449.6	459.9	468.6	472.6
32.5°	471.0	463.9	447.3	425.9	416.3	419.5	428.2	436.2	439.3
35°	433.8	425.9	411.6	392.6	386.2	389.4	397.3	403.7	405.3
37.5°	391.8	386.2	375.8	360.8	356.0	360.0	366.3	370.3	371.9
40°	352.8	348.1	339.4	328.3	326.7	329.9	336.2	338.6	339.4
42.5°	314.8	310.8	305.3	297.4	297.4	300.5	306.1	307.7	308.5
45°	278.4	276.0	273.6	267.3	268.8	272.8	276.0	278.4	278.4
47.5°	246.7	247.5	244.3	239.5	241.1	245.1	247.5	249.8	249.8
50°	222.0	219.6	216.4	211.7	214.1	217.2	220.4	222.0	222.8
52.5°	193.5	192.7	190.3	184.7	186.3	187.9	191.1	193.5	194.3
55°	172.9	170.5	167.3	161.0	161.0	162.6	164.1	165.7	167.3
57.5°	153.0	150.7	145.9	138.8	138.0	138.0	137.2	138.8	141.2
60°	133.2	132.4	125.3	119.0	116.6	114.2	111.0	111.8	115.0
62.5°	115.8	114.2	107.9	100.0	95.2	91.2	87.3	86.5	89.7
65°	100.0	98.4	91.2	83.3	77.8	70.5	64.2	64.2	66.6
67.5°	85.7	82.5	76.2	67.4	60.2	51.5	45.2	46.8	47.5
70°	71.3	68.9	61.8	53.1	44.4	35.7	31.7	32.5	32.5
72.5°	58.6	55.5	48.3	39.6	30.9	23.0	21.4	20.6	20.6
75°	46.0	42.8	35.7	26.9	19.0	13.5	11.9	11.9	11.9
77.5°	33.3	30.9	24.6	16.6	10.3	6.3	5.5	4.8	4.8
80°	23.0	20.6	15.1	8.7	4.0	2.4	2.4	2.4	2.4
82.5°	13.5	11.1	7.1	4.0	1.6	0.8	0.8	0.8	0.8
85°	6.3	4.8	3.2	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	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)