

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: P581576

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581576
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-HM60525830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1162.8 lumens
Efficiency: N/A
Efficacy: 117.5 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

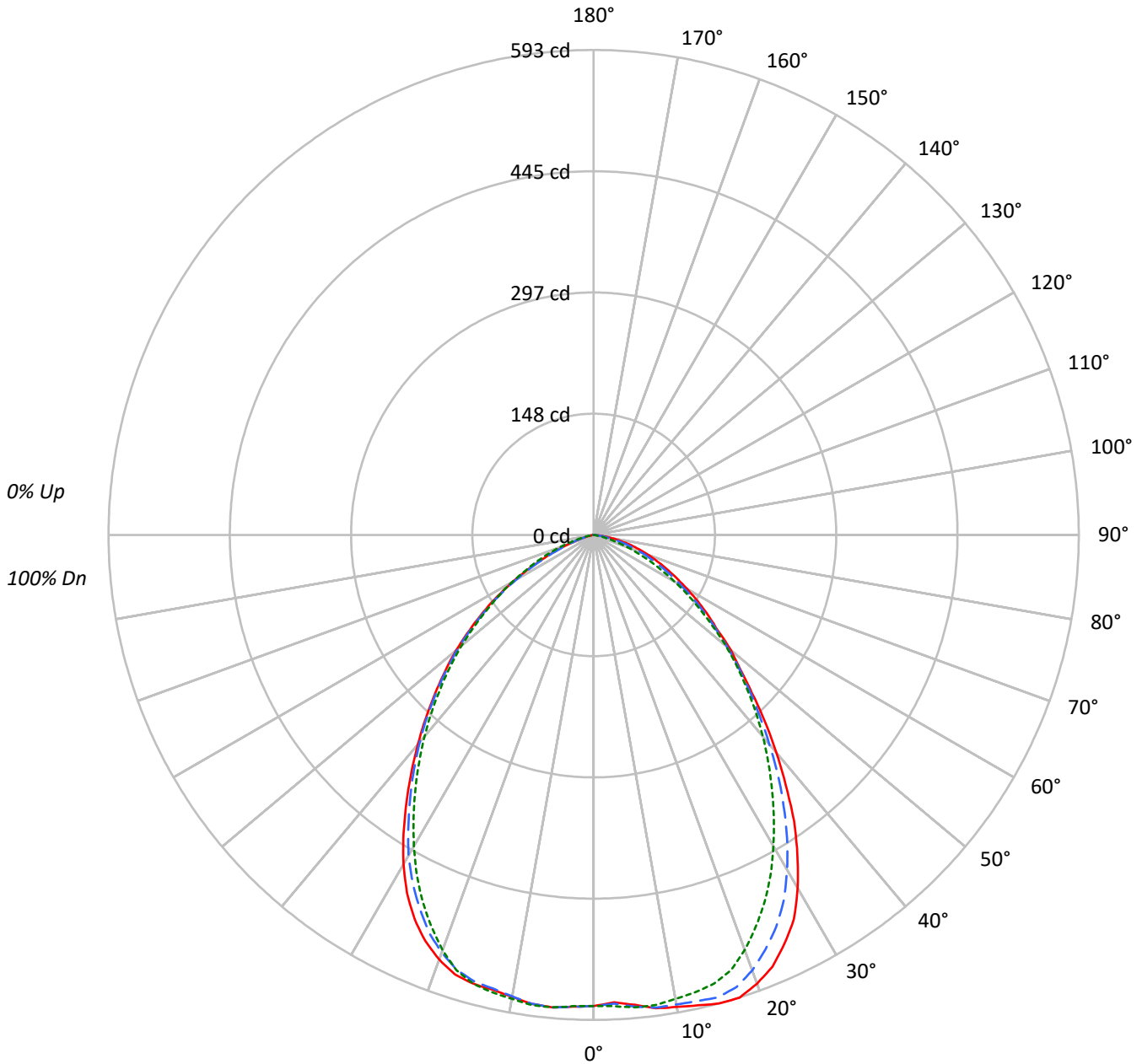
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	31576	31576	31576
5°	31741	31912	31912
10°	32626	32064	31930
15°	33666	32248	32248
20°	34058	31509	32232
25°	33371	29929	31345
30°	31574	27814	29441
35°	28569	25437	26689
40°	24854	23015	23909
45°	21235	20506	21235
50°	18635	17978	18703
55°	16257	15149	15741
60°	14374	12576	12411
65°	12764	9923	8496
70°	11268	7004	5129
75°	9595	3961	2478
80°	7135	1200	758
85°	3900	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	4.8
10°-20°	161.6	13.9
20°-30°	236.1	20.3
30°-40°	247.6	21.3
40°-50°	208.6	17.9
50°-60°	146.1	12.6
60°-70°	78.4	6.7
70°-80°	26.3	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°	453.0	39.0
0°-40°	700.6	60.2
0°-60°	1055.3	90.8
0°-90°	1162.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	576	576	576	576	576	
5°	577	579	580	580	580	55
15°	593	585	568	565	568	167
25°	552	528	495	503	518	253
35°	427	405	380	391	399	265
45°	274	269	264	272	274	213
55°	170	165	158	162	165	153
65°	98	90	76	63	66	98
75°	45	35	19	12	12	48
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°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	572.1	572.1	573.6	575.2	576.8	576.8	577.5	578.3	577.5
5°	576.8	576.8	579.1	579.9	579.9	579.1	579.9	579.9	579.9
7.5°	583.8	582.2	583.0	581.4	579.9	579.1	578.3	578.3	578.3
10°	586.1	584.6	583.0	579.9	576.0	573.6	572.9	573.6	573.6
12.5°	589.2	587.7	583.8	577.5	572.9	568.9	568.2	569.7	569.7
15°	593.2	591.6	585.4	575.2	568.2	564.3	565.1	566.6	568.2
17.5°	593.2	590.0	579.9	566.6	558.1	554.1	557.3	561.1	563.5
20°	583.8	580.7	566.6	550.3	540.1	537.7	543.2	550.3	552.5
22.5°	571.3	565.1	548.7	529.1	518.2	518.2	526.0	534.6	537.7
25°	551.7	547.1	528.4	505.8	494.8	494.0	503.4	515.1	518.2
27.5°	529.9	523.7	503.4	480.0	468.3	469.1	479.2	490.9	494.0
30°	498.8	490.9	472.9	450.3	439.4	442.5	452.7	461.3	465.1
32.5°	463.6	456.5	440.2	419.1	409.8	412.8	421.4	429.3	432.4
35°	426.9	419.1	405.0	386.4	380.1	383.2	391.0	397.2	398.8
37.5°	385.6	380.1	369.9	355.1	350.5	354.3	360.5	364.5	366.1
40°	347.3	342.7	334.1	323.1	321.6	324.7	330.9	333.3	334.1
42.5°	309.8	306.0	300.4	292.6	292.6	295.8	301.2	302.8	303.6
45°	273.9	271.6	269.3	263.0	264.5	268.5	271.6	273.9	273.9
47.5°	242.7	243.5	240.4	235.7	237.3	241.1	243.5	245.9	245.9
50°	218.5	216.2	213.0	208.4	210.8	213.8	217.0	218.5	219.3
52.5°	190.4	189.6	187.3	181.8	183.4	185.0	188.1	190.4	191.2
55°	170.1	167.8	164.7	158.5	158.5	160.0	161.5	163.1	164.7
57.5°	150.7	148.3	143.7	136.6	135.8	135.8	135.0	136.6	138.9
60°	131.1	130.3	123.3	117.0	114.7	112.4	109.2	110.0	113.2
62.5°	114.0	112.4	106.2	98.4	93.6	89.8	85.8	85.1	88.2
65°	98.4	96.8	89.8	82.0	76.5	69.5	63.2	63.2	65.5
67.5°	84.3	81.2	74.9	66.3	59.3	50.7	44.5	46.1	46.9
70°	70.3	67.9	60.9	52.3	43.7	35.1	31.2	32.0	32.0
72.5°	57.7	54.7	47.7	39.1	30.5	22.6	21.1	20.3	20.3
75°	45.3	42.1	35.1	26.5	18.7	13.2	11.7	11.7	11.7
77.5°	32.8	30.5	24.2	16.4	10.2	6.2	5.4	4.6	4.6
80°	22.6	20.3	14.8	8.6	3.8	2.4	2.4	2.4	2.4
82.5°	13.2	11.0	7.0	3.8	1.6	0.8	0.8	0.8	0.8
85°	6.2	4.6	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)