

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: P581558

Luminaire Tested: **HC610D010-HM60525827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581558
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-HM60525827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1081.2 lumens
Efficiency: N/A
Efficacy: 109.2 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

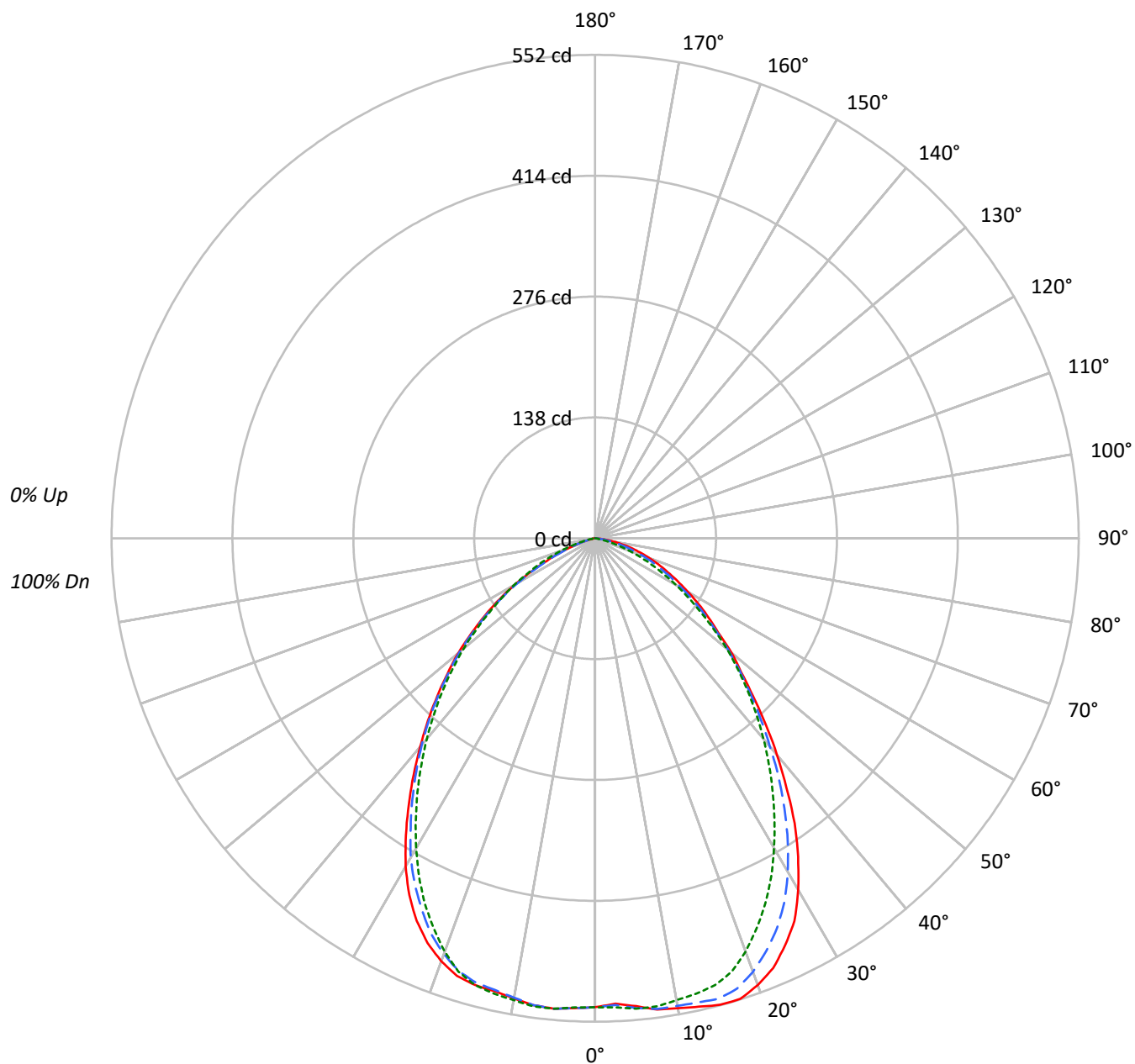
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	29356	29356	29356
5°	29507	29672	29672
10°	30332	29809	29692
15°	31300	29983	29983
20°	31666	29298	29974
25°	31030	27824	29149
30°	29353	25858	27378
35°	26568	23651	24815
40°	23115	21397	22227
45°	19746	19072	19746
50°	17330	16707	17390
55°	15111	14078	14642
60°	13365	11688	11545
65°	11869	9223	7900
70°	10467	6508	4776
75°	8917	3685	2309
80°	6661	1137	695
85°	3648	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	4.8
10°-20°	150.3	13.9
20°-30°	219.5	20.3
30°-40°	230.2	21.3
40°-50°	193.9	17.9
50°-60°	135.9	12.6
60°-70°	72.9	6.7
70°-80°	24.4	2.3
80°-90°	2.7	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°	421.2	39.0
0°-40°	651.4	60.2
0°-60°	981.3	90.8
0°-90°	1081.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	536	536	536	536	536	
5°	536	538	539	539	539	52
15°	552	544	528	525	528	156
25°	513	491	460	468	482	235
35°	397	377	353	364	371	246
45°	255	250	246	252	255	198
55°	158	153	147	150	153	142
65°	92	83	71	59	61	91
75°	42	33	17	11	11	45
85°	6	3	1	1	1	8
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°	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5
2.5°	531.9	531.9	533.4	534.9	536.2	536.2	537.0	537.7	537.0
5°	536.2	536.2	538.5	539.2	539.2	538.5	539.2	539.2	539.2
7.5°	542.8	541.3	542.1	540.6	539.2	538.5	537.7	537.7	537.7
10°	544.9	543.6	542.1	539.2	535.5	533.4	532.6	533.4	533.4
12.5°	547.9	546.4	542.8	537.0	532.6	529.0	528.3	529.8	529.8
15°	551.5	550.0	544.3	534.9	528.3	524.7	525.4	526.8	528.3
17.5°	551.5	548.6	539.2	526.8	518.9	515.2	518.1	521.7	523.9
20°	542.8	539.9	526.8	511.6	502.2	500.0	505.1	511.6	513.8
22.5°	531.2	525.4	510.2	492.0	481.9	481.9	489.1	497.1	500.0
25°	513.0	508.7	491.3	470.2	460.0	459.4	468.1	478.9	481.9
27.5°	492.8	486.9	468.1	446.2	435.4	436.2	445.6	456.4	459.4
30°	463.7	456.4	439.8	418.7	408.5	411.5	420.9	428.9	432.5
32.5°	431.1	424.5	409.3	389.6	381.0	383.9	391.9	399.1	402.0
35°	397.0	389.6	376.6	359.2	353.4	356.4	363.6	369.4	370.8
37.5°	358.5	353.4	344.0	330.2	325.8	329.4	335.3	338.9	340.4
40°	323.0	318.5	310.6	300.4	299.0	301.9	307.7	309.8	310.6
42.5°	288.1	284.5	279.4	272.1	272.1	275.1	280.1	281.5	282.3
45°	254.7	252.5	250.4	244.5	246.0	249.6	252.5	254.7	254.7
47.5°	225.7	226.4	223.5	219.2	220.6	224.2	226.4	228.6	228.6
50°	203.2	201.0	198.1	193.8	195.9	198.8	201.7	203.2	203.9
52.5°	177.0	176.4	174.2	169.1	170.5	172.0	174.9	177.0	177.8
55°	158.1	156.0	153.2	147.3	147.3	148.7	150.2	151.7	153.2
57.5°	140.0	137.9	133.6	127.0	126.2	126.2	125.5	127.0	129.2
60°	121.9	121.2	114.7	108.9	106.6	104.5	101.5	102.3	105.3
62.5°	106.0	104.5	98.7	91.5	87.1	83.4	79.8	79.1	82.0
65°	91.5	90.0	83.4	76.2	71.1	64.6	58.8	58.8	60.9
67.5°	78.3	75.5	69.6	61.7	55.1	47.2	41.3	42.8	43.6
70°	65.3	63.2	56.6	48.7	40.6	32.6	29.0	29.8	29.8
72.5°	53.7	50.8	44.3	36.3	28.3	21.1	19.6	18.9	18.9
75°	42.1	39.2	32.6	24.7	17.4	12.3	10.9	10.9	10.9
77.5°	30.5	28.3	22.5	15.3	9.4	5.8	5.1	4.3	4.3
80°	21.1	18.9	13.8	8.0	3.6	2.2	2.2	2.2	2.2
82.5°	12.3	10.2	6.6	3.6	1.5	0.7	0.7	0.7	0.7
85°	5.8	4.3	2.9	1.5	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	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)