

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: P593032

Luminaire Tested: **HC607D010-HM60525850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593032
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: HC607D010-HM60525850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 917.2 lumens
Efficiency: N/A
Efficacy: 114.7 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

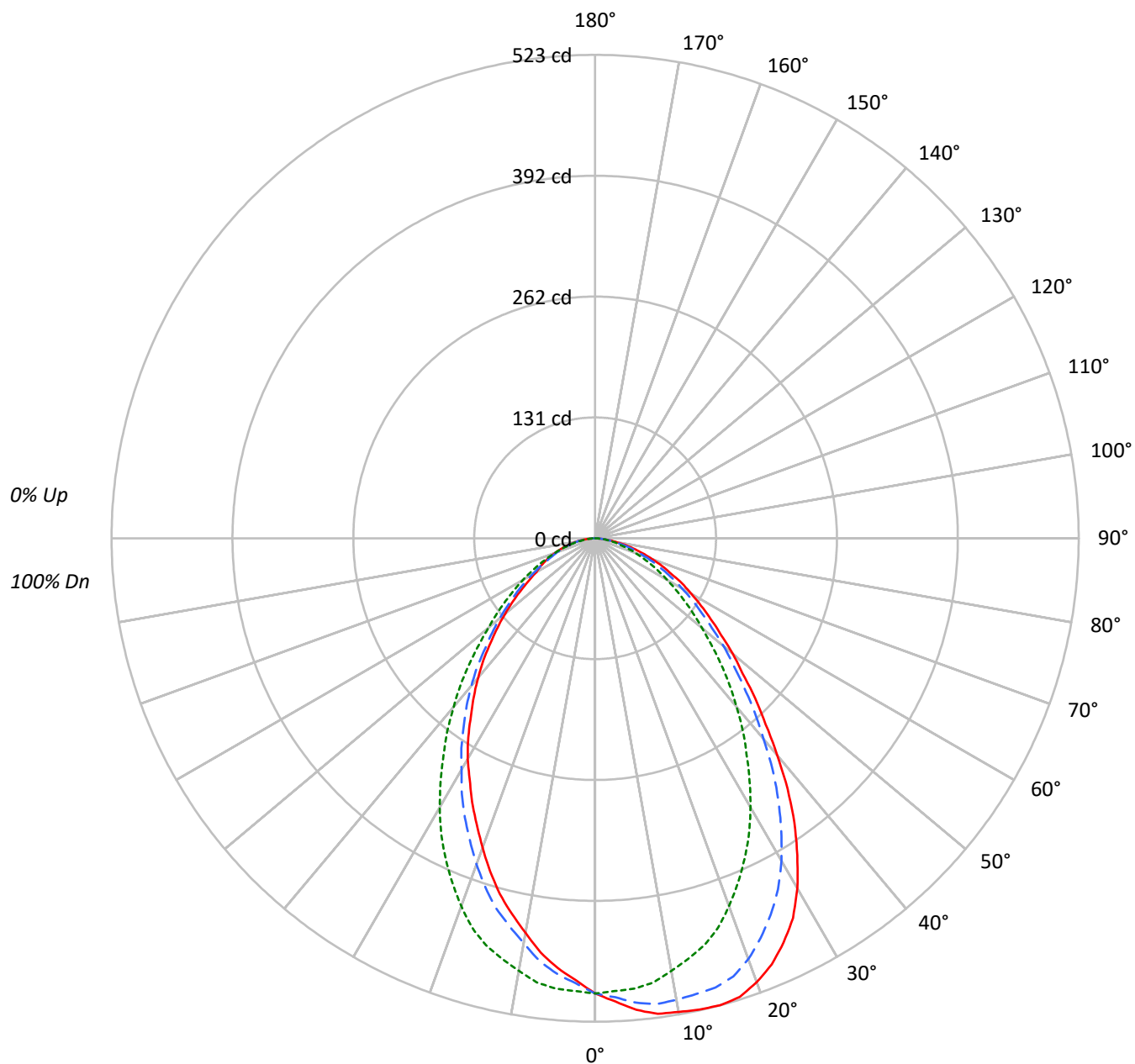
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26993	26993	26993
5°	28186	26915	25677
10°	28963	26452	24126
15°	29677	25874	22599
20°	29811	24706	20763
25°	29179	23130	19035
30°	27681	21269	17452
35°	25143	19113	15660
40°	21905	17025	14084
45°	18955	14901	12389
50°	16562	12835	10848
55°	14633	11268	9309
60°	13157	9879	8059
65°	11778	8600	7822
70°	10515	7341	7341
75°	9129	6164	6884
80°	7324	5209	6251
85°	4969	4592	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	5.0
10°-20°	128.6	14.0
20°-30°	179.3	19.5
30°-40°	184.7	20.1
40°-50°	153.1	16.7
50°-60°	110.0	12.0
60°-70°	70.1	7.6
70°-80°	36.0	3.9
80°-90°	9.1	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°	354.2	38.6
0°-40°	538.9	58.8
0°-60°	802.0	87.4
0°-90°	917.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	917.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	512	504	489	473	467	49
15°	523	503	456	414	398	147
25°	482	449	382	333	315	221
35°	376	345	286	248	234	233
45°	244	227	192	168	160	189
55°	153	140	118	105	97	138
65°	91	81	66	58	60	91
75°	43	37	29	30	32	46
85°	8	7	7	8	9	10
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°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	501.7	499.7	497.0	494.3	490.4	485.7	481.8	480.5	478.5
5°	512.2	509.6	504.3	497.7	489.1	480.5	473.1	468.5	466.6
7.5°	518.9	515.6	508.3	497.0	484.5	471.9	461.2	454.7	452.0
10°	520.3	516.9	507.0	491.7	475.2	458.0	444.7	436.8	433.4
12.5°	522.2	517.6	505.0	487.1	465.9	445.9	429.4	419.5	416.2
15°	522.9	517.6	503.1	481.2	455.9	432.1	414.2	402.2	398.2
17.5°	520.3	514.3	497.0	470.5	442.0	416.8	395.6	383.1	377.7
20°	511.0	504.3	484.5	454.7	423.5	397.0	375.1	361.9	355.9
22.5°	499.0	490.4	467.9	436.1	403.6	375.7	353.8	340.6	334.7
25°	482.4	474.5	449.3	415.5	382.4	353.3	333.3	319.4	314.7
27.5°	463.3	454.0	428.2	394.3	360.5	331.4	312.1	299.6	293.6
30°	437.3	428.7	402.9	369.1	336.0	308.9	288.9	278.4	275.7
32.5°	406.9	399.6	374.5	342.6	310.8	285.6	269.1	257.8	255.2
35°	375.7	367.1	345.2	315.4	285.6	263.1	247.9	237.9	234.0
37.5°	341.9	334.0	315.4	288.9	262.4	241.2	228.0	219.3	215.4
40°	306.1	300.2	283.0	261.7	237.9	219.3	208.1	200.8	196.8
42.5°	273.1	267.0	255.2	235.2	215.4	198.8	188.9	182.3	178.9
45°	244.5	239.3	227.3	210.1	192.2	178.2	167.7	163.0	159.8
47.5°	216.1	213.3	202.8	186.8	170.3	158.4	151.1	145.8	143.1
50°	194.2	190.9	180.9	164.4	150.5	141.2	134.5	129.8	127.2
52.5°	171.6	168.4	159.1	145.1	133.9	125.2	118.6	114.7	112.1
55°	153.1	150.5	140.5	127.9	117.9	110.7	104.7	100.0	97.4
57.5°	135.8	133.2	124.0	112.1	103.3	96.8	91.4	87.5	84.2
60°	120.0	117.9	108.7	97.4	90.1	83.5	78.9	75.6	73.5
62.5°	106.0	102.1	94.2	84.2	77.5	72.3	67.6	65.6	67.0
65°	90.8	88.8	80.9	72.3	66.3	61.0	57.7	59.0	60.3
67.5°	78.2	75.6	68.9	61.0	55.6	51.7	49.7	52.3	53.0
70°	65.6	63.0	57.0	50.4	45.8	43.1	43.1	45.1	45.8
72.5°	53.7	51.7	46.3	41.1	37.7	35.8	37.2	38.4	39.1
75°	43.1	41.1	37.2	32.5	29.1	29.1	30.5	31.8	32.5
77.5°	33.1	31.8	27.9	24.5	23.2	23.2	24.5	25.2	25.8
80°	23.2	21.9	19.8	17.9	16.5	17.9	19.3	19.3	19.8
82.5°	15.3	14.6	13.3	11.9	11.9	12.6	13.3	13.9	13.9
85°	7.9	7.9	7.3	6.6	7.3	7.9	7.9	8.6	8.6
87.5°	2.6	2.6	2.6	2.6	3.3	3.3	3.3	3.3	3.3
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)