

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: P581656

Luminaire Tested: **HC610D010-HM60525930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581656
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: HC610D010-HM60525930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 925.9 lumens
Efficiency: N/A
Efficacy: 93.5 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

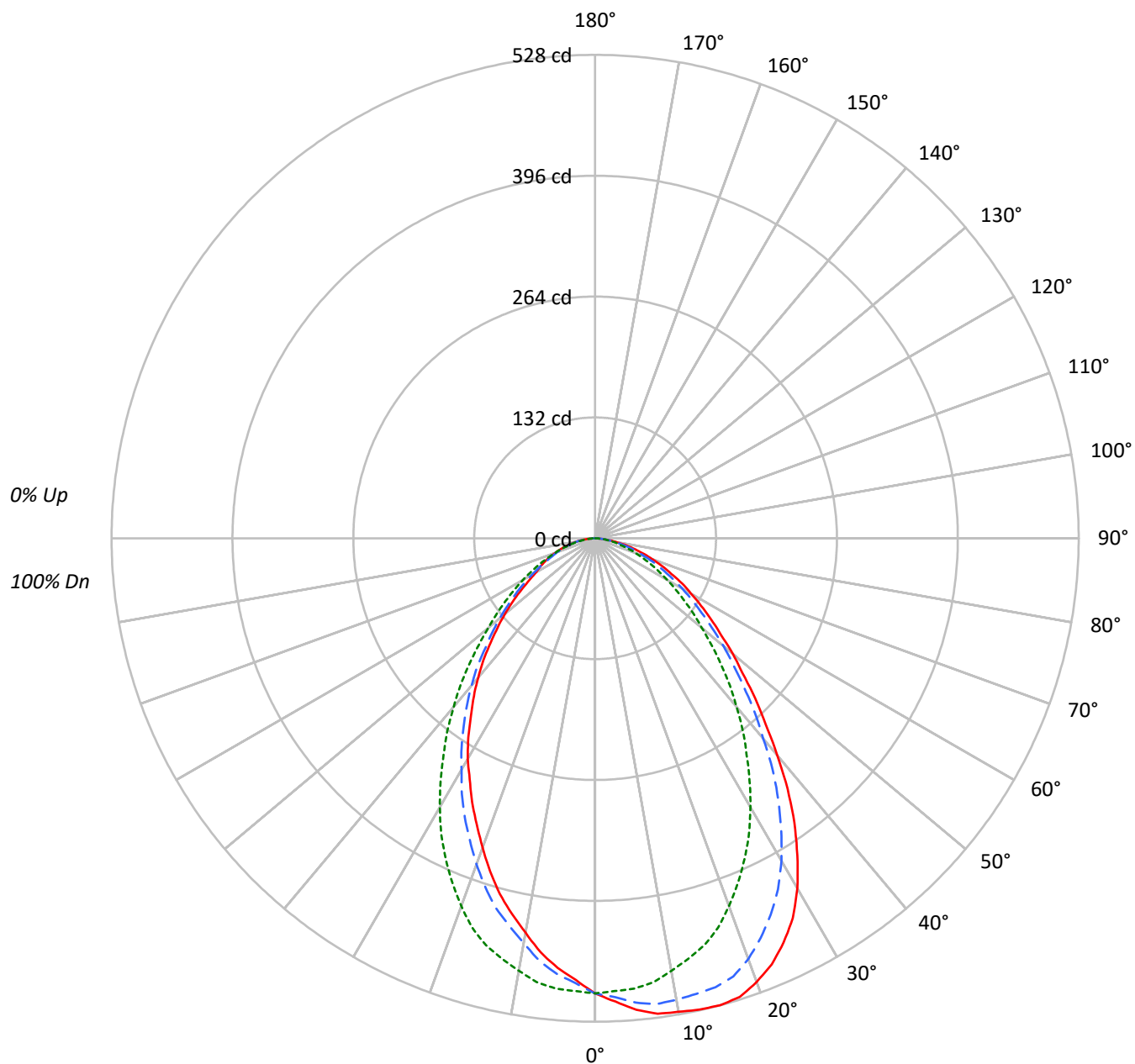
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	27251	27251	27251
5°	28456	27168	25913
10°	29230	26697	24354
15°	29960	26124	22821
20°	30085	24934	20961
25°	29457	23348	19223
30°	27947	21465	17610
35°	25384	19294	15801
40°	22113	17189	14219
45°	19142	15040	12497
50°	16724	12955	10959
55°	14766	11383	9405
60°	13277	9977	8146
65°	11895	8678	7900
70°	10611	7405	7405
75°	9214	6227	6947
80°	7387	5304	6314
85°	5032	4655	5472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	5.0
10°-20°	129.9	14.0
20°-30°	181.0	19.5
30°-40°	186.5	20.1
40°-50°	154.5	16.7
50°-60°	111.1	12.0
60°-70°	70.7	7.6
70°-80°	36.3	3.9
80°-90°	9.2	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°	357.5	38.6
0°-40°	544.0	58.8
0°-60°	809.6	87.4
0°-90°	925.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	497	497	497	497	497	
5°	517	509	494	478	471	50
15°	528	508	460	418	402	149
25°	487	454	386	336	318	223
35°	379	348	288	250	236	236
45°	247	230	194	169	161	191
55°	154	142	119	106	98	139
65°	92	82	67	58	61	92
75°	44	38	29	31	33	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°	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1
2.5°	506.5	504.4	501.7	499.1	495.0	490.4	486.3	485.1	483.0
5°	517.1	514.5	509.1	502.4	493.7	485.1	477.7	472.9	470.9
7.5°	523.8	520.5	513.1	501.7	489.0	476.3	465.6	458.9	456.2
10°	525.1	521.9	511.8	496.4	479.6	462.3	448.8	440.9	437.5
12.5°	527.2	522.4	509.7	491.7	470.3	450.2	433.4	423.5	420.1
15°	527.9	522.4	507.7	485.6	460.3	436.2	418.2	406.0	402.1
17.5°	525.1	519.1	501.7	475.0	446.2	420.8	399.4	386.7	381.4
20°	515.7	509.1	489.0	458.9	427.4	400.7	378.7	365.3	359.3
22.5°	503.7	495.0	472.3	440.2	407.4	379.3	357.3	343.9	337.8
25°	487.0	478.9	453.6	419.4	386.0	356.6	336.5	322.4	317.8
27.5°	467.6	458.2	432.2	398.0	363.9	334.5	315.0	302.4	296.4
30°	441.5	432.9	406.7	372.7	339.1	311.8	291.7	281.0	278.2
32.5°	410.8	403.4	378.0	345.8	313.8	288.3	271.6	260.2	257.5
35°	379.3	370.6	348.5	318.4	288.3	265.6	250.2	240.2	236.1
37.5°	345.1	337.1	318.4	291.7	264.9	243.5	230.1	221.4	217.5
40°	309.0	303.0	285.6	264.2	240.2	221.4	210.1	202.7	198.7
42.5°	275.6	269.6	257.5	237.5	217.5	200.7	190.6	184.0	180.7
45°	246.9	241.5	229.5	212.0	194.0	180.0	169.2	164.6	161.2
47.5°	218.1	215.4	204.7	188.7	172.0	159.8	152.5	147.2	144.4
50°	196.1	192.7	182.6	166.0	151.9	142.5	135.8	131.1	128.5
52.5°	173.3	169.9	160.5	146.5	135.2	126.4	119.8	115.7	113.1
55°	154.5	151.9	141.8	129.2	119.1	111.7	105.7	101.0	98.4
57.5°	137.1	134.5	125.1	113.1	104.4	97.7	92.4	88.3	85.0
60°	121.1	119.1	109.7	98.4	91.0	84.3	79.6	76.3	74.3
62.5°	107.1	103.0	95.0	85.0	78.2	72.9	68.3	66.2	67.6
65°	91.7	89.7	81.6	72.9	66.9	61.6	58.2	59.5	60.9
67.5°	78.9	76.3	69.6	61.6	56.1	52.2	50.1	52.9	53.5
70°	66.2	63.5	57.5	50.8	46.2	43.5	43.5	45.5	46.2
72.5°	54.2	52.2	46.9	41.4	38.1	36.1	37.5	38.8	39.5
75°	43.5	41.4	37.5	32.8	29.4	29.4	30.8	32.1	32.8
77.5°	33.4	32.1	28.1	24.8	23.4	23.4	24.8	25.5	26.0
80°	23.4	22.1	20.0	18.1	16.8	18.1	19.4	19.4	20.0
82.5°	15.4	14.7	13.4	12.0	12.0	12.7	13.4	14.0	14.0
85°	8.0	8.0	7.4	6.7	7.4	8.0	8.0	8.7	8.7
87.5°	2.7	2.7	2.7	2.7	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)