

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: P581648

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581648
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-HM60525930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 996.8 lumens
Efficiency: N/A
Efficacy: 100.7 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

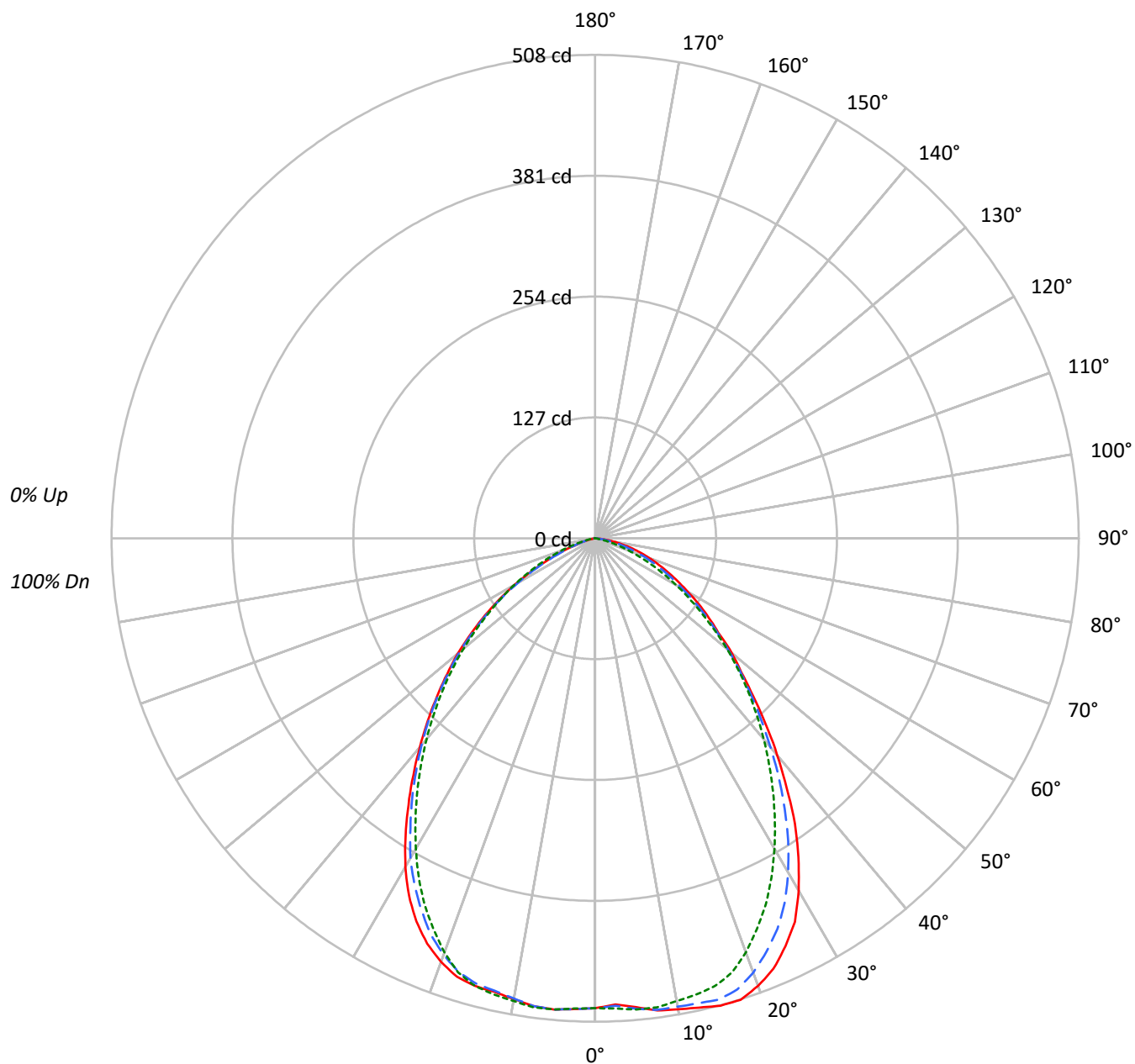
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	76	69	64		74	68	63			72	67	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		62	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	45			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27070	27070	27070
5°	27212	27355	27355
10°	27972	27488	27371
15°	28859	27645	27645
20°	29198	27011	27629
25°	28604	25659	26868
30°	27067	23839	25238
35°	24494	21804	22881
40°	21304	19723	20496
45°	18203	17591	18203
50°	15974	15411	16034
55°	13935	12979	13495
60°	12324	10789	10635
65°	10935	8496	7277
70°	9649	6011	4392
75°	8218	3410	2139
80°	6125	1073	631
85°	3334	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	4.8
10°-20°	138.6	13.9
20°-30°	202.4	20.3
30°-40°	212.2	21.3
40°-50°	178.8	17.9
50°-60°	125.3	12.6
60°-70°	67.2	6.7
70°-80°	22.5	2.3
80°-90°	2.5	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°	388.3	39.0
0°-40°	600.6	60.2
0°-60°	904.7	90.8
0°-90°	996.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	996.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	494	494	494	494	494	
5°	494	496	497	497	497	48
15°	508	502	487	484	487	143
25°	473	453	424	432	444	217
35°	366	347	326	335	342	227
45°	235	231	227	233	235	183
55°	146	141	136	138	141	131
65°	84	77	66	54	56	84
75°	39	30	16	10	10	41
85°	5	3	1	1	1	7
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°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	490.4	490.4	491.7	493.1	494.5	494.5	495.1	495.7	495.1
5°	494.5	494.5	496.4	497.1	497.1	496.4	497.1	497.1	497.1
7.5°	500.5	499.1	499.8	498.4	497.1	496.4	495.7	495.7	495.7
10°	502.5	501.1	499.8	497.1	493.8	491.7	491.1	491.7	491.7
12.5°	505.1	503.7	500.5	495.1	491.1	487.8	487.1	488.3	488.3
15°	508.5	507.1	501.8	493.1	487.1	483.7	484.4	485.7	487.1
17.5°	508.5	505.8	497.1	485.7	478.4	475.0	477.7	481.0	483.0
20°	500.5	497.7	485.7	471.7	463.0	461.0	465.6	471.7	473.6
22.5°	489.7	484.4	470.3	453.6	444.2	444.2	450.9	458.2	461.0
25°	472.9	469.0	452.9	433.6	424.2	423.5	431.5	441.6	444.2
27.5°	454.3	449.0	431.5	411.5	401.4	402.1	410.8	420.8	423.5
30°	427.6	420.8	405.5	386.0	376.6	379.3	388.0	395.4	398.7
32.5°	397.4	391.3	377.3	359.3	351.3	353.9	361.2	368.0	370.6
35°	366.0	359.3	347.2	331.2	325.8	328.5	335.2	340.5	341.9
37.5°	330.5	325.8	317.1	304.4	300.4	303.7	309.0	312.4	313.8
40°	297.7	293.8	286.4	277.0	275.6	278.4	283.7	285.7	286.4
42.5°	265.6	262.3	257.5	250.9	250.9	253.6	258.2	259.6	260.2
45°	234.8	232.9	230.8	225.5	226.9	230.1	232.9	234.8	234.8
47.5°	208.1	208.7	206.0	202.1	203.4	206.7	208.7	210.8	210.8
50°	187.3	185.3	182.6	178.6	180.7	183.3	186.0	187.3	188.0
52.5°	163.2	162.6	160.5	155.9	157.2	158.6	161.2	163.2	163.9
55°	145.8	143.9	141.2	135.8	135.8	137.2	138.4	139.8	141.2
57.5°	129.2	127.1	123.0	117.0	116.4	116.4	115.7	117.0	119.1
60°	112.4	111.7	105.7	100.4	98.4	96.3	93.6	94.3	97.0
62.5°	97.7	96.3	91.0	84.3	80.3	77.0	73.6	72.9	75.6
65°	84.3	83.0	77.0	70.3	65.5	59.5	54.2	54.2	56.1
67.5°	72.2	69.6	64.2	56.8	50.8	43.5	38.1	39.5	40.2
70°	60.2	58.2	52.2	44.8	37.5	30.1	26.7	27.4	27.4
72.5°	49.5	46.9	40.9	33.5	26.0	19.4	18.1	17.4	17.4
75°	38.8	36.1	30.1	22.8	16.1	11.3	10.1	10.1	10.1
77.5°	28.1	26.0	20.7	14.0	8.7	5.3	4.6	4.0	4.0
80°	19.4	17.4	12.7	7.4	3.4	2.0	2.0	2.0	2.0
82.5°	11.3	9.4	6.0	3.4	1.4	0.7	0.7	0.7	0.7
85°	5.3	4.0	2.7	1.4	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)