

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: P581565

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 919.4 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

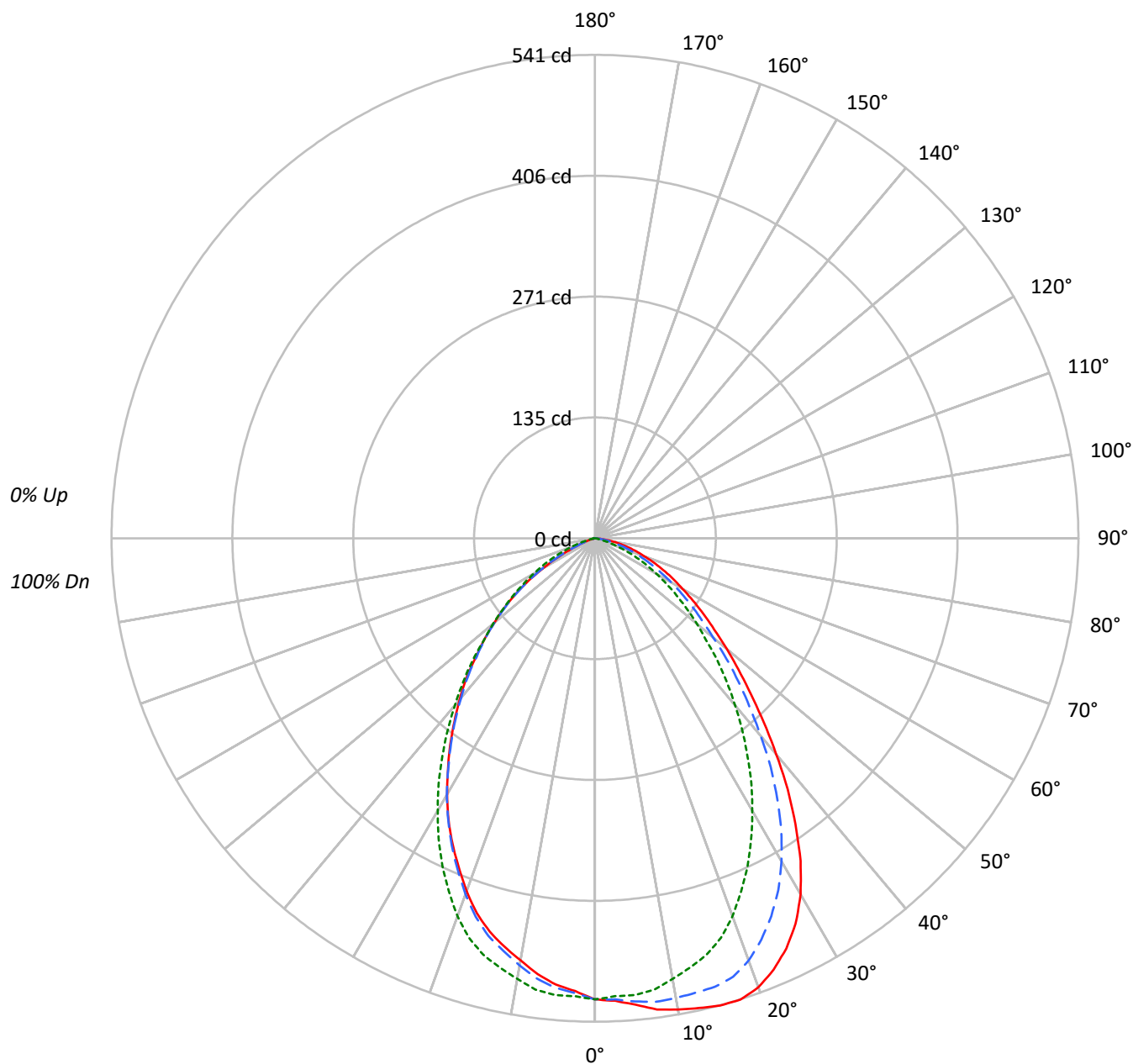
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	102	100		101	99	97			97	95	94			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	80	75	93	86	79	74		83	77	73			80	76	72			78
4	89	79	71	66	87	78	71	65		75	69	64			73	68	64			71
5	83	72	64	58	81	71	63	58		69	62	57			67	61	57			65
6	77	65	58	52	75	65	57	52		63	56	51			61	55	51			60
7	72	60	52	47	70	59	52	47		58	51	46			56	51	46			55
8	67	55	48	43	66	55	47	42		53	47	42			52	46	42			51
9	63	51	44	39	62	51	44	39		50	43	39			49	43	38			48
10	60	48	40	36	58	47	40	36		46	40	36			45	40	35			45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28287	28287	28287
5°	28830	28230	27592
10°	29809	27872	26697
15°	30721	27389	25863
20°	31199	26246	24508
25°	30637	24443	22822
30°	29118	22276	20946
35°	26174	19910	18892
40°	22585	17447	16874
45°	19126	15025	14629
50°	16400	12682	12562
55°	14212	10676	10265
60°	12411	8673	7324
65°	10922	6680	4047
70°	9425	4424	1971
75°	7985	2160	763
80°	6188	916	474
85°	3648	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	5.3
10°-20°	137.7	15.0
20°-30°	193.9	21.1
30°-40°	198.1	21.5
40°-50°	159.7	17.4
50°-60°	107.1	11.7
60°-70°	54.2	5.9
70°-80°	17.3	1.9
80°-90°	2.7	0.3
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°	380.2	41.4
0°-40°	578.3	62.9
0°-60°	845.2	91.9
0°-90°	919.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	919.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	516	516	516	516	516	
5°	524	520	513	505	501	50
15°	541	520	483	461	456	153
25°	506	467	404	379	377	232
35°	391	356	298	281	282	243
45°	247	227	194	187	189	192
55°	149	132	112	107	107	134
65°	84	70	52	34	31	84
75°	38	27	10	4	4	41
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°	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0
2.5°	518.1	517.3	516.6	515.2	513.0	510.9	509.4	507.9	507.2
5°	523.9	522.4	520.3	517.3	513.0	507.9	505.0	502.2	501.4
7.5°	531.9	529.0	523.2	516.6	509.4	502.2	497.1	494.1	492.0
10°	535.5	530.5	522.4	511.6	500.7	492.0	485.4	481.1	479.6
12.5°	538.4	532.6	520.9	506.5	492.0	480.4	473.1	469.4	468.1
15°	541.3	535.5	519.6	500.7	482.6	468.8	460.7	457.1	455.7
17.5°	541.3	533.3	514.5	490.5	468.8	452.1	444.1	440.5	439.8
20°	534.8	526.0	502.8	474.5	449.9	431.1	423.8	421.6	420.1
22.5°	522.4	512.3	486.2	454.3	427.4	409.2	401.3	399.8	398.4
25°	506.5	496.4	466.6	432.4	404.1	386.0	379.4	378.1	377.3
27.5°	486.2	475.3	444.1	409.2	378.8	361.3	355.6	355.6	354.9
30°	460.0	447.7	417.3	382.4	351.9	336.0	331.6	331.6	330.9
32.5°	428.1	415.8	388.2	354.9	325.8	309.1	305.5	306.9	306.2
35°	391.1	380.9	355.6	323.0	297.5	282.3	280.8	282.3	282.3
37.5°	354.1	344.7	323.0	294.7	270.7	256.9	256.9	259.0	258.3
40°	315.6	308.4	288.1	263.4	243.8	234.3	233.0	235.1	235.8
42.5°	279.4	273.6	256.2	235.8	218.4	209.0	211.1	212.6	213.4
45°	246.7	240.9	227.1	206.0	193.8	187.2	187.2	189.4	188.7
47.5°	217.7	213.4	199.6	179.2	168.3	165.5	166.9	168.3	168.3
50°	192.3	185.8	172.7	156.8	148.7	145.1	146.6	147.3	147.3
52.5°	168.3	164.0	150.9	136.4	129.2	127.0	127.0	127.7	127.7
55°	148.7	143.7	132.1	117.5	111.7	108.9	106.6	106.0	107.4
57.5°	129.8	125.5	114.7	100.9	94.3	91.5	87.1	85.6	87.1
60°	113.2	109.6	98.7	85.6	79.1	73.2	68.3	65.3	66.8
62.5°	98.7	94.3	83.4	72.6	65.3	58.8	50.8	46.4	48.6
65°	84.2	80.6	69.6	58.8	51.5	43.6	34.1	31.2	31.2
67.5°	71.1	67.5	57.3	47.9	39.2	29.8	21.1	20.3	21.1
70°	58.8	55.1	46.4	37.0	27.6	18.1	12.3	12.3	12.3
72.5°	48.6	44.3	36.3	26.8	17.4	9.4	6.6	7.2	7.2
75°	37.7	34.1	26.8	18.1	10.2	4.3	3.6	3.6	3.6
77.5°	28.3	25.4	18.9	11.7	5.1	1.5	1.5	1.5	1.5
80°	19.6	16.6	12.3	7.2	2.9	1.5	1.5	1.5	1.5
82.5°	11.7	10.2	7.2	3.6	1.5	0.7	0.7	0.7	0.7
85°	5.8	5.1	2.9	1.5	0.7	0.7	0.7	0.7	0.7
87.5°	1.5	1.5	0.7	0.7	0.0	0.7	0.7	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)