

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: P581566

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581566
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-HM60525827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1004.3 lumens
Efficiency: N/A
Efficacy: 101.4 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

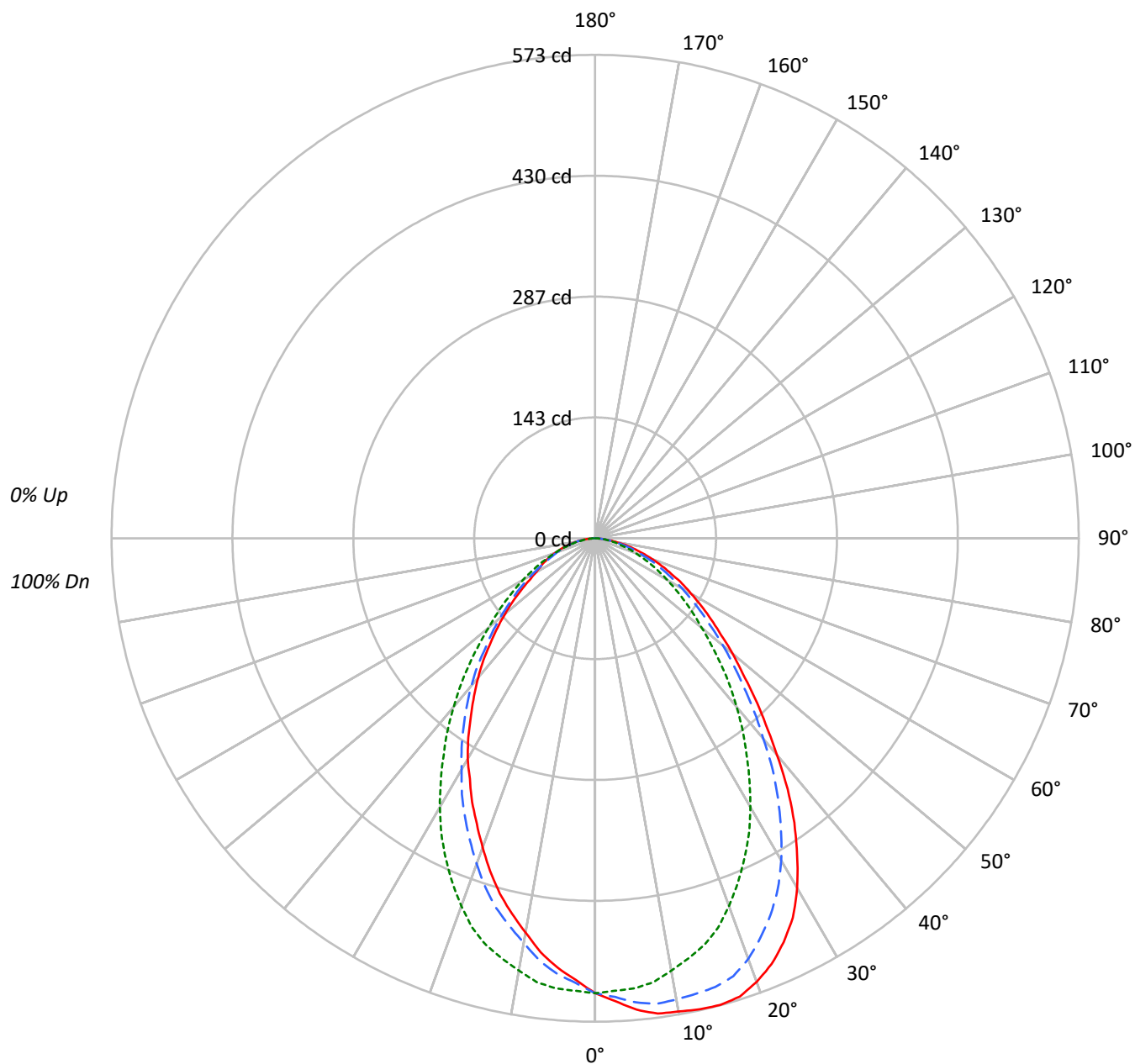
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29559	29559	29559
5°	30866	29468	28115
10°	31707	28963	26413
15°	32497	28332	24745
20°	32635	27052	22729
25°	31955	25326	20850
30°	30315	23288	19111
35°	27532	20934	17146
40°	23988	18642	15422
45°	20754	16312	13560
50°	18132	14046	11880
55°	16019	12348	10188
60°	14396	10822	8837
65°	12894	9417	8561
70°	11524	8014	8014
75°	9997	6757	7519
80°	8019	5714	6851
85°	5472	5032	5913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	5.0
10°-20°	140.9	14.0
20°-30°	196.3	19.5
30°-40°	202.3	20.1
40°-50°	167.6	16.7
50°-60°	120.5	12.0
60°-70°	76.7	7.6
70°-80°	39.4	3.9
80°-90°	10.0	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°	387.8	38.6
0°-40°	590.1	58.8
0°-60°	878.1	87.4
0°-90°	1004.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1004.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	539	539	539	539	539	
5°	561	552	536	518	511	54
15°	573	551	499	454	436	161
25°	528	492	419	365	345	242
35°	411	378	313	271	256	256
45°	268	249	210	184	175	207
55°	168	154	129	115	107	151
65°	99	88	73	63	66	100
75°	47	41	32	33	36	50
85°	9	8	8	9	9	11
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°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2
2.5°	549.2	547.1	544.3	541.3	536.9	531.9	527.5	526.0	523.9
5°	560.9	558.0	552.2	544.9	535.5	526.0	518.1	513.0	510.9
7.5°	568.2	564.5	556.6	544.3	530.5	516.6	505.0	497.7	494.9
10°	569.6	566.0	555.1	538.4	520.3	501.4	486.9	478.2	474.5
12.5°	571.8	566.7	552.9	533.3	510.1	488.3	470.2	459.4	455.7
15°	572.6	566.7	550.7	526.8	499.2	473.1	453.5	440.5	436.0
17.5°	569.6	563.1	544.3	515.2	484.0	456.4	433.2	419.4	413.6
20°	559.4	552.2	530.5	497.7	463.7	434.7	410.7	396.2	389.6
22.5°	546.4	536.9	512.2	477.5	441.9	411.4	387.5	373.0	366.4
25°	528.3	519.6	492.0	455.0	418.7	386.8	365.0	349.8	344.7
27.5°	507.2	497.1	468.8	431.7	394.7	362.8	341.8	327.9	321.5
30°	478.9	469.4	441.1	404.1	367.9	338.1	316.4	304.7	301.9
32.5°	445.6	437.5	410.0	375.1	340.3	312.8	294.5	282.3	279.4
35°	411.4	402.0	378.1	345.4	312.8	288.1	271.3	260.5	256.2
37.5°	374.5	365.7	345.4	316.4	287.3	264.1	249.6	240.2	235.8
40°	335.2	328.7	309.8	286.6	260.5	240.2	227.9	219.8	215.5
42.5°	299.0	292.4	279.4	257.6	235.8	217.7	206.8	199.6	195.9
45°	267.7	261.9	248.9	230.0	210.4	195.2	183.6	178.5	174.9
47.5°	236.6	233.6	222.0	204.7	186.4	173.4	165.4	159.6	156.8
50°	212.6	209.0	198.1	180.0	164.7	154.5	147.3	142.2	139.3
52.5°	187.9	184.3	174.1	158.9	146.6	137.1	129.8	125.5	122.6
55°	167.6	164.7	153.8	140.0	129.2	121.1	114.7	109.6	106.6
57.5°	148.7	145.8	135.7	122.6	113.2	106.0	100.2	95.8	92.1
60°	131.3	129.2	119.0	106.6	98.7	91.5	86.4	82.7	80.6
62.5°	116.1	111.7	103.0	92.1	84.9	79.1	74.0	71.9	73.2
65°	99.4	97.2	88.5	79.1	72.6	66.8	63.2	64.5	66.0
67.5°	85.6	82.7	75.5	66.8	60.9	56.6	54.4	57.3	58.1
70°	71.9	68.9	62.4	55.1	50.0	47.2	47.2	49.4	50.0
72.5°	58.8	56.6	50.8	44.9	41.3	39.2	40.6	42.1	42.8
75°	47.2	44.9	40.6	35.5	31.9	31.9	33.4	34.9	35.5
77.5°	36.3	34.9	30.5	26.8	25.4	25.4	26.8	27.6	28.3
80°	25.4	24.0	21.7	19.6	18.1	19.6	21.1	21.1	21.7
82.5°	16.6	16.0	14.5	13.0	13.0	13.8	14.5	15.3	15.3
85°	8.7	8.7	8.0	7.2	8.0	8.7	8.7	9.4	9.4
87.5°	2.9	2.9	2.9	2.9	3.6	3.6	3.6	3.6	3.6
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)