

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: P581559

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1084.8 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

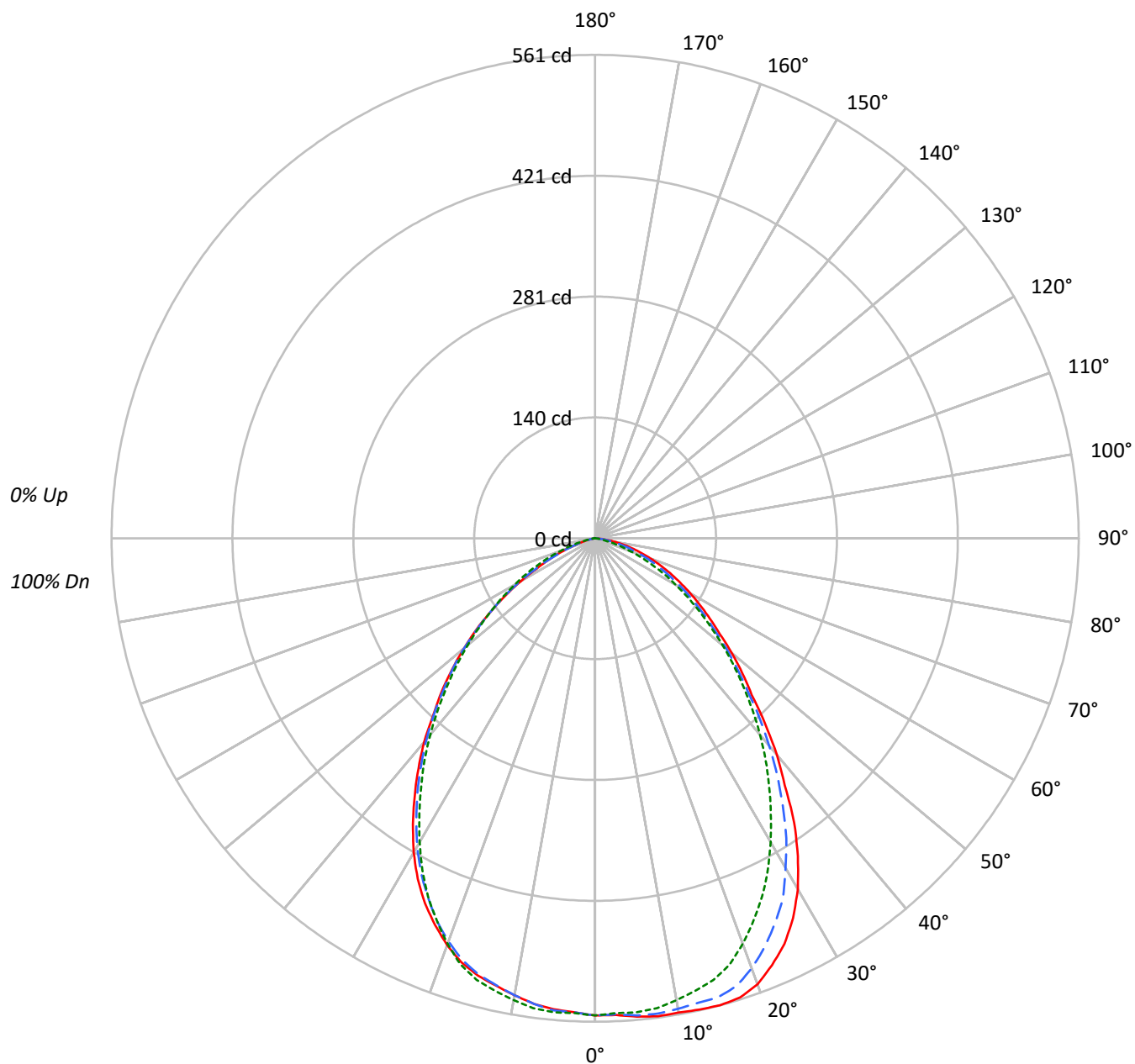
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30354	30354	30354
5°	30668	30387	30189
10°	31106	30293	29970
15°	31833	30108	29819
20°	32127	29210	29298
25°	31423	27740	28266
30°	29764	25770	26643
35°	26950	23550	24427
40°	23465	21290	22070
45°	19917	18839	19521
50°	17637	16460	16895
55°	15541	14078	14011
60°	13924	11852	10898
65°	12427	9495	7809
70°	10947	6860	4889
75°	9235	4151	2754
80°	7103	1831	1137
85°	4151	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	4.8
10°-20°	151.0	13.9
20°-30°	218.3	20.1
30°-40°	229.7	21.2
40°-50°	193.1	17.8
50°-60°	135.6	12.5
60°-70°	74.6	6.9
70°-80°	26.5	2.4
80°-90°	3.5	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°	421.9	38.9
0°-40°	651.6	60.1
0°-60°	980.3	90.4
0°-90°	1084.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	554	554	554	554	554	
5°	557	556	552	550	549	53
15°	561	552	530	524	525	158
25°	520	493	459	459	467	238
35°	403	379	352	359	365	250
45°	257	250	243	249	252	202
55°	163	154	147	147	147	146
65°	96	86	73	60	60	95
75°	44	35	20	13	13	47
85°	7	4	1	1	1	9
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°	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7
2.5°	553.7	553.7	552.9	552.9	551.5	551.5	550.7	550.7	550.7
5°	557.3	557.3	555.8	553.7	552.2	550.0	550.0	549.2	548.6
7.5°	559.4	558.8	556.5	553.7	550.0	546.4	544.9	545.6	544.9
10°	558.8	557.3	554.3	548.6	544.2	539.2	538.4	537.7	538.4
12.5°	560.1	558.0	552.2	544.9	537.7	531.8	531.1	531.1	531.8
15°	560.9	558.8	551.5	540.5	530.5	524.6	523.9	524.6	525.4
17.5°	558.8	555.8	544.9	530.5	518.8	513.0	513.0	514.5	515.9
20°	550.7	546.4	531.1	513.7	500.7	496.3	497.7	500.7	502.2
22.5°	536.2	531.1	513.7	494.1	480.3	476.7	480.3	483.9	485.4
25°	519.5	513.7	493.4	473.1	458.6	454.3	459.3	465.1	467.3
27.5°	497.1	490.5	471.6	448.4	433.9	431.7	437.5	444.1	445.6
30°	470.2	463.0	441.9	420.1	407.1	406.4	412.8	418.7	420.9
32.5°	437.5	431.0	412.8	391.1	379.4	379.4	386.0	391.1	393.3
35°	402.7	395.4	379.4	361.3	351.9	352.6	359.2	362.8	365.0
37.5°	361.3	359.2	346.8	331.6	325.1	326.5	331.6	334.5	336.7
40°	327.9	322.2	314.1	301.9	297.5	299.0	304.1	306.9	308.4
42.5°	291.7	288.1	281.5	272.8	269.9	272.1	276.4	278.6	277.9
45°	256.9	256.2	249.6	244.5	243.0	246.0	248.9	251.1	251.8
47.5°	231.5	228.6	222.8	219.2	217.7	220.6	223.5	224.9	224.9
50°	206.8	203.9	198.1	194.5	193.0	195.9	198.1	199.6	198.1
52.5°	182.1	179.2	174.1	169.8	169.1	170.5	171.3	172.0	173.4
55°	162.6	159.6	153.8	148.7	147.3	148.1	147.3	147.3	146.6
57.5°	143.7	140.8	134.9	129.2	127.0	126.2	124.1	123.4	122.6
60°	127.0	123.4	117.5	111.0	108.1	105.2	101.5	99.4	99.4
62.5°	111.0	107.4	100.9	95.1	90.7	85.6	79.8	76.9	76.9
65°	95.8	92.8	85.6	79.1	73.2	66.8	60.2	58.8	60.2
67.5°	81.3	78.3	71.1	64.5	57.3	49.4	43.6	43.6	44.9
70°	68.3	65.3	58.8	50.8	42.8	34.9	30.5	30.5	30.5
72.5°	55.9	53.0	45.7	38.5	30.5	22.5	20.3	21.1	20.3
75°	43.6	41.3	34.9	26.8	19.6	13.8	13.0	12.3	13.0
77.5°	32.6	30.5	24.7	17.4	10.9	8.0	7.2	7.2	7.2
80°	22.5	20.3	16.0	10.2	5.8	3.6	3.6	3.6	3.6
82.5°	13.8	11.7	8.7	5.1	2.2	2.2	2.2	2.2	2.2
85°	6.6	5.1	3.6	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)