

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: P583313

Luminaire Tested: **HC607D010-HM60525830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 905.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

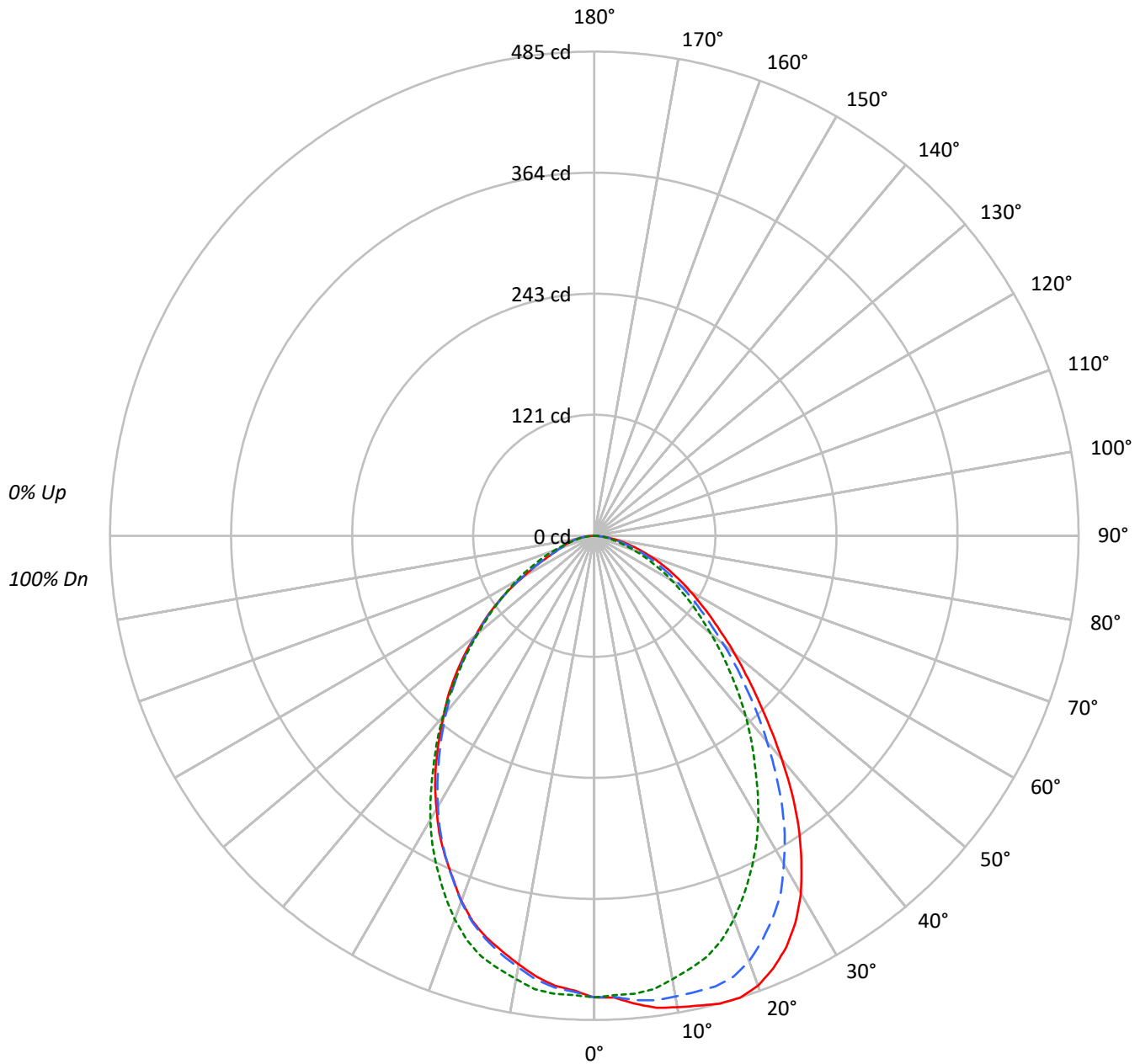
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25349	25349	25349
5°	25897	25341	24890
10°	26692	25105	24265
15°	27537	24773	23661
20°	27973	23843	22699
25°	27510	22429	21394
30°	26194	20794	19997
35°	23885	18765	18471
40°	20889	16867	16767
45°	17971	14839	15180
50°	15624	12929	13202
55°	13648	11345	11469
60°	12126	9835	9001
65°	10818	8276	6875
70°	9521	6796	5770
75°	8155	5359	5486
80°	6566	4578	5398
85°	4340	3963	4780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	4.8
10°-20°	124.6	13.8
20°-30°	177.9	19.6
30°-40°	186.4	20.6
40°-50°	156.9	17.3
50°-60°	111.7	12.3
60°-70°	65.4	7.2
70°-80°	30.9	3.4
80°-90°	8.0	0.9
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°	346.3	38.2
0°-40°	532.7	58.8
0°-60°	801.3	88.5
0°-90°	905.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	462	462	462	462	462	
5°	471	467	460	454	452	45
15°	485	468	436	419	417	137
25°	455	423	371	353	354	208
35°	357	327	280	271	276	222
45°	232	215	191	192	196	180
55°	143	131	119	119	120	129
65°	83	74	64	54	53	83
75°	38	32	25	25	26	41
85°	7	6	6	8	8	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°	462.4	462.4	462.4	462.4	462.4	462.4	462.4	462.4	462.4
2.5°	463.1	463.1	462.4	461.8	460.5	458.6	457.3	456.0	456.0
5°	470.6	469.3	466.8	463.6	460.5	456.7	454.2	452.3	452.3
7.5°	476.9	474.4	469.3	463.6	458.0	452.9	448.4	445.9	445.4
10°	479.5	476.3	468.7	459.9	451.0	444.0	439.0	435.9	435.9
12.5°	482.0	478.1	468.0	455.5	444.0	434.6	429.5	427.0	426.3
15°	485.2	480.1	467.5	451.6	436.5	425.8	418.8	416.9	416.9
17.5°	485.2	478.8	463.1	443.5	424.5	412.5	406.2	404.3	404.9
20°	479.5	472.5	453.5	429.5	408.7	396.1	389.8	388.5	389.1
22.5°	468.7	460.5	439.0	413.1	390.4	377.1	371.4	371.4	370.8
25°	454.8	445.9	422.6	395.4	370.8	357.6	353.2	353.7	353.7
27.5°	436.5	427.6	404.3	375.2	350.6	337.3	334.1	335.4	336.0
30°	413.8	404.3	379.7	351.2	328.5	315.2	313.3	315.2	315.9
32.5°	385.9	379.0	355.0	326.0	304.4	293.1	292.4	294.4	296.8
35°	356.9	349.3	327.2	300.7	280.4	271.0	271.0	274.2	276.0
37.5°	325.3	317.7	297.5	275.4	258.3	249.5	250.7	253.9	254.6
40°	291.9	286.2	269.1	250.2	235.7	228.6	230.6	233.7	234.3
42.5°	260.3	255.2	241.3	224.2	213.5	208.5	211.0	214.8	216.1
45°	231.8	226.1	214.8	200.2	191.4	188.9	192.0	194.5	195.8
47.5°	206.0	200.9	191.4	178.1	171.8	170.5	173.7	174.9	176.2
50°	183.2	178.1	168.7	156.7	151.6	151.6	154.1	155.4	154.8
52.5°	161.1	156.7	147.9	137.7	134.6	134.6	136.4	137.1	138.3
55°	142.8	138.3	130.7	121.2	118.7	117.5	118.7	118.7	120.0
57.5°	125.6	121.9	115.0	106.2	103.0	101.7	101.1	100.4	101.7
60°	110.6	107.4	99.8	92.2	89.7	86.6	84.1	81.5	82.1
62.5°	96.6	93.5	86.6	79.0	76.5	72.1	68.9	65.7	67.0
65°	83.4	80.2	73.9	67.6	63.8	58.7	53.7	51.8	53.0
67.5°	71.4	68.9	62.5	56.2	53.0	47.4	42.4	42.4	42.9
70°	59.4	56.9	51.8	46.1	42.4	37.3	35.3	36.0	36.0
72.5°	48.6	46.8	41.7	36.6	32.9	29.7	29.7	30.4	30.9
75°	38.5	37.3	32.2	27.8	25.3	23.3	24.6	25.3	25.9
77.5°	29.7	27.8	24.0	20.8	18.9	19.6	20.8	21.5	22.1
80°	20.8	20.2	17.1	15.2	14.5	15.2	16.4	17.1	17.1
82.5°	13.3	12.7	10.8	10.1	10.1	10.8	12.0	12.0	12.0
85°	6.9	6.3	5.7	5.7	6.3	6.9	7.6	7.6	7.6
87.5°	2.5	1.9	2.5	2.5	3.2	3.2	3.2	3.2	3.2
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)