

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: P582881

Luminaire Tested: **HC605D010-HM60525830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582881
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: HC605D010-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: 684.1 lumens
Efficiency: N/A
Efficacy: 114.0 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

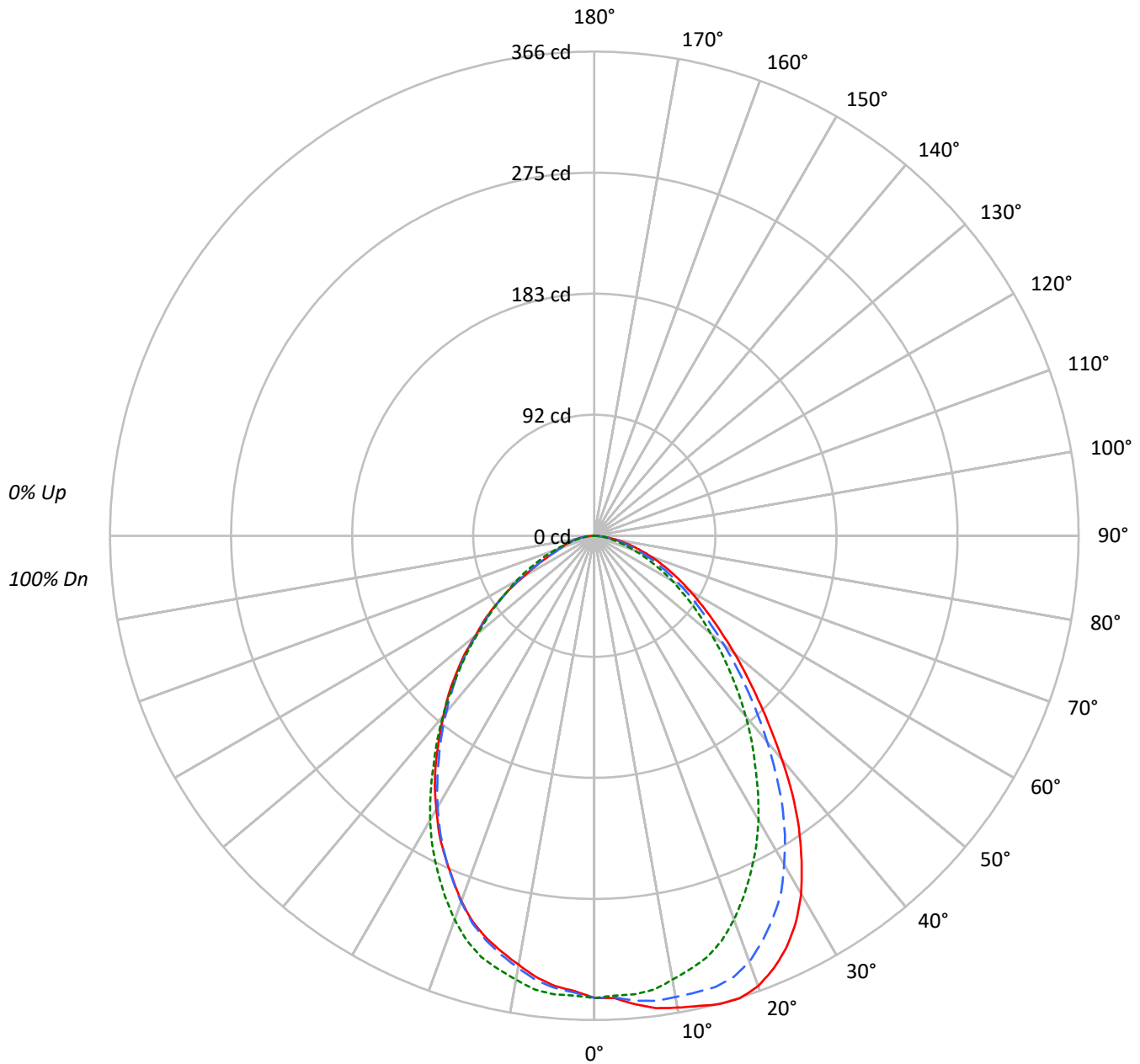
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98		100	97	95			96	94	92			93
2	102	95	89	84	100	93	88	83		90	85	81			87	83	80			84
3	94	85	78	72	92	84	77	72		81	75	71			78	73	69			76
4	87	77	69	63	85	75	68	63		73	67	62			71	65	61			69
5	81	70	61	56	79	68	61	55		66	60	55			65	59	54			63
6	75	63	55	49	74	62	55	49		61	54	49			59	53	48			58
7	70	58	50	44	69	57	50	44		56	49	44			54	48	44			53
8	66	53	46	40	64	53	45	40		51	45	40			50	44	40			49
9	62	49	42	37	60	49	42	37		48	41	36			47	41	36			46
10	58	46	38	34	57	45	38	33		44	38	33			43	37	33			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19149	19149	19149
5°	19563	19145	18804
10°	20162	18965	18331
15°	20800	18712	17872
20°	21130	18009	17146
25°	20783	16943	16162
30°	19788	15705	15110
35°	18042	14181	13960
40°	15780	12738	12674
45°	13575	11210	11466
50°	11803	9774	9978
55°	10303	8573	8659
60°	9155	7434	6798
65°	8159	6265	5202
70°	7197	5129	4360
75°	6185	4046	4130
80°	4956	3473	4072
85°	3271	2956	3648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	4.8
10°-20°	94.2	13.8
20°-30°	134.4	19.6
30°-40°	140.8	20.6
40°-50°	118.5	17.3
50°-60°	84.4	12.3
60°-70°	49.4	7.2
70°-80°	23.4	3.4
80°-90°	6.0	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°	261.6	38.2
0°-40°	402.4	58.8
0°-60°	605.3	88.5
0°-90°	684.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	349	349	349	349	349	
5°	356	353	348	343	342	34
15°	366	353	330	316	315	103
25°	344	319	280	267	267	157
35°	270	247	212	205	209	167
45°	175	162	145	145	148	136
55°	108	99	90	90	91	97
65°	63	56	48	41	40	63
75°	29	24	19	19	20	31
85°	5	4	5	6	6	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°	349.3	349.3	349.3	349.3	349.3	349.3	349.3	349.3	349.3
2.5°	349.8	349.8	349.3	348.8	347.9	346.5	345.6	344.5	344.5
5°	355.5	354.6	352.7	350.3	347.9	345.0	343.1	341.7	341.7
7.5°	360.2	358.4	354.6	350.3	346.0	342.2	338.8	337.0	336.4
10°	362.2	359.8	354.1	347.4	340.7	335.5	331.7	329.3	329.3
12.5°	364.1	361.3	353.6	344.1	335.5	328.4	324.5	322.6	322.2
15°	366.5	362.7	353.1	341.3	329.7	321.6	316.4	314.9	314.9
17.5°	366.5	361.7	349.8	335.0	320.7	311.7	306.8	305.4	305.9
20°	362.2	357.0	342.6	324.5	308.7	299.2	294.5	293.5	293.9
22.5°	354.1	347.9	331.7	312.1	294.9	284.9	280.6	280.6	280.1
25°	343.6	337.0	319.2	298.8	280.1	270.1	266.8	267.2	267.2
27.5°	329.7	323.1	305.4	283.5	264.9	254.8	252.4	253.3	253.9
30°	312.6	305.4	286.8	265.3	248.1	238.1	236.7	238.1	238.7
32.5°	291.5	286.3	268.1	246.2	230.1	221.5	220.9	222.4	224.3
35°	269.6	263.9	247.2	227.1	211.9	204.8	204.8	207.1	208.6
37.5°	245.8	240.0	224.8	208.0	195.2	188.5	189.5	191.9	192.3
40°	220.5	216.2	203.3	188.9	178.0	172.8	174.1	176.6	177.1
42.5°	196.6	192.8	182.3	169.4	161.3	157.5	159.4	162.3	163.2
45°	175.1	170.9	162.3	151.3	144.6	142.7	145.1	147.0	147.9
47.5°	155.6	151.8	144.6	134.6	129.8	128.8	131.2	132.2	133.1
50°	138.4	134.6	127.5	118.3	114.6	114.6	116.4	117.4	117.0
52.5°	121.7	118.3	111.6	104.1	101.7	101.7	103.1	103.5	104.5
55°	107.8	104.5	98.8	91.6	89.7	88.8	89.7	89.7	90.6
57.5°	94.9	92.1	86.9	80.1	77.7	76.8	76.4	75.8	76.8
60°	83.5	81.1	75.4	69.7	67.8	65.4	63.5	61.6	62.0
62.5°	73.0	70.6	65.4	59.7	57.7	54.4	52.0	49.6	50.6
65°	62.9	60.6	55.8	51.1	48.3	44.4	40.6	39.1	40.1
67.5°	53.9	52.0	47.2	42.5	40.1	35.8	32.0	32.0	32.4
70°	44.9	42.9	39.1	34.8	32.0	28.1	26.7	27.2	27.2
72.5°	36.7	35.4	31.5	27.7	24.9	22.4	22.4	22.9	23.4
75°	29.2	28.1	24.3	21.0	19.1	17.6	18.6	19.1	19.5
77.5°	22.4	21.0	18.1	15.7	14.4	14.8	15.7	16.3	16.7
80°	15.7	15.3	12.9	11.4	11.0	11.4	12.4	12.9	12.9
82.5°	10.1	9.5	8.1	7.7	7.7	8.1	9.0	9.0	9.0
85°	5.2	4.7	4.3	4.3	4.7	5.2	5.8	5.8	5.8
87.5°	1.9	1.5	1.9	1.9	2.4	2.4	2.4	2.4	2.4
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)