

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: P581944

Luminaire Tested: **HC620D010-HM60525930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581944
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: HC620D010-HM60525930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1707.9 lumens
Efficiency: N/A
Efficacy: 85.4 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

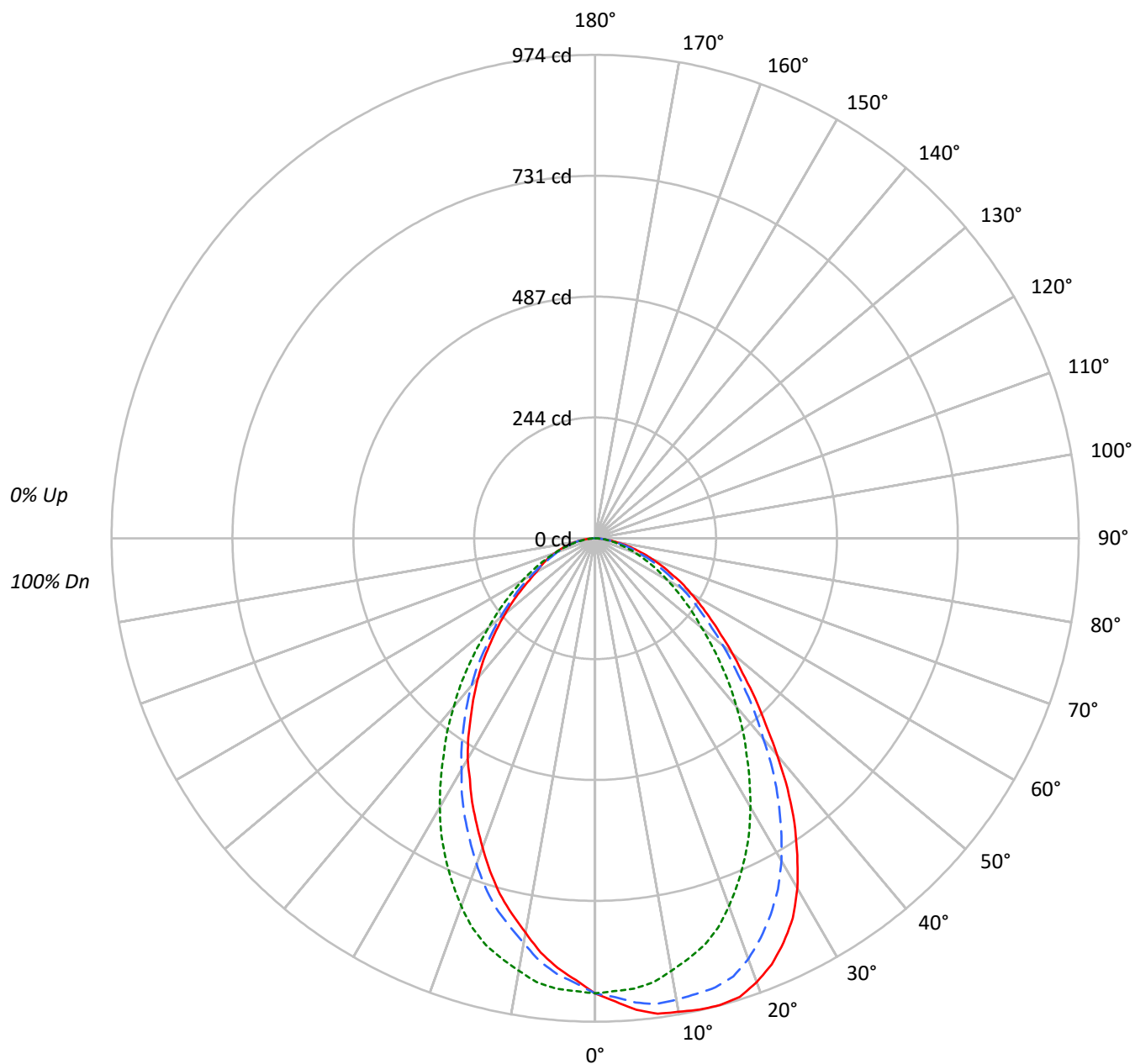
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	50259	50259	50259
5°	52493	50115	47810
10°	53924	49253	44922
15°	55256	48184	42094
20°	55503	46006	38661
25°	54342	43067	35452
30°	51552	39601	32499
35°	46826	35590	29152
40°	40798	31702	26228
45°	35306	27747	23057
50°	30831	23888	20204
55°	27249	20998	17337
60°	24483	18398	15021
65°	21922	16007	14567
70°	19571	13656	13656
75°	16987	11501	12814
80°	13638	9723	11681
85°	9309	8554	10127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	5.0
10°-20°	239.5	14.0
20°-30°	333.8	19.5
30°-40°	344.0	20.1
40°-50°	285.1	16.7
50°-60°	204.9	12.0
60°-70°	130.5	7.6
70°-80°	67.0	3.9
80°-90°	17.0	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°	659.5	38.6
0°-40°	1003.5	58.8
0°-60°	1493.4	87.4
0°-90°	1707.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	917	917	917	917	917	
5°	954	939	911	881	869	91
15°	974	937	849	771	742	274
25°	898	837	712	621	586	412
35°	700	643	532	462	436	435
45°	455	423	358	312	297	352
55°	285	262	220	195	181	257
65°	169	151	123	107	112	169
75°	80	69	54	57	60	86
85°	15	14	14	15	16	19
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°	916.8	916.8	916.8	916.8	916.8	916.8	916.8	916.8	916.8
2.5°	934.2	930.4	925.5	920.6	913.2	904.5	897.1	894.6	891.0
5°	953.9	949.0	939.0	926.8	910.7	894.6	881.1	872.4	868.8
7.5°	966.2	960.1	946.5	925.5	902.1	878.6	858.9	846.6	841.6
10°	968.7	962.5	944.0	915.7	884.8	852.7	828.0	813.3	807.0
12.5°	972.5	963.7	940.3	907.0	867.5	830.5	799.7	781.1	775.0
15°	973.6	963.7	936.7	895.9	849.0	804.5	771.2	749.0	741.7
17.5°	968.7	957.6	925.5	876.1	823.1	776.2	736.7	713.2	703.4
20°	951.4	939.0	902.1	846.6	788.6	739.2	698.5	673.8	662.7
22.5°	929.2	913.2	871.2	812.0	751.5	699.7	659.0	634.3	623.2
25°	898.4	883.5	836.6	773.7	712.0	657.7	620.7	594.8	586.1
27.5°	862.6	845.3	797.2	734.2	671.3	617.0	581.2	557.8	546.7
30°	814.4	798.4	750.3	687.4	625.6	575.0	538.1	518.2	513.4
32.5°	757.6	744.2	697.2	638.0	578.7	531.8	501.0	480.1	475.1
35°	699.7	683.7	642.9	587.3	531.8	489.9	461.5	443.0	435.6
37.5°	636.7	621.9	587.3	538.1	488.7	449.2	424.5	408.4	401.1
40°	570.1	559.0	527.0	487.4	443.0	408.4	387.5	373.9	366.5
42.5°	508.4	497.3	475.1	438.0	401.1	370.2	351.7	339.3	333.2
45°	455.4	445.5	423.3	391.2	357.9	332.0	312.3	303.5	297.4
47.5°	402.3	397.3	377.6	347.9	317.1	294.9	281.3	271.5	266.6
50°	361.5	355.4	336.8	306.0	280.1	262.9	250.5	241.9	236.9
52.5°	319.6	313.4	296.2	270.2	249.3	233.3	220.9	213.5	208.6
55°	285.1	280.1	261.6	238.2	219.7	206.1	195.0	186.4	181.4
57.5°	253.0	248.0	230.8	208.6	192.5	180.1	170.3	162.9	156.7
60°	223.3	219.7	202.4	181.4	167.8	155.4	146.8	140.7	137.0
62.5°	197.5	190.0	175.3	156.7	144.3	134.5	125.9	122.1	124.6
65°	169.0	165.3	150.6	134.5	123.4	113.5	107.4	109.8	112.3
67.5°	145.6	140.7	128.4	113.5	103.7	96.3	92.6	97.4	98.7
70°	122.1	117.3	106.2	93.8	85.2	80.2	80.2	84.0	85.2
72.5°	99.9	96.3	86.3	76.5	70.4	66.6	69.1	71.6	72.9
75°	80.2	76.5	69.1	60.5	54.3	54.3	56.8	59.3	60.5
77.5°	61.7	59.3	51.8	45.7	43.2	43.2	45.7	46.9	48.2
80°	43.2	40.7	37.0	33.3	30.8	33.3	35.8	35.8	37.0
82.5°	28.4	27.2	24.7	22.2	22.2	23.5	24.7	25.9	25.9
85°	14.8	14.8	13.6	12.3	13.6	14.8	14.8	16.1	16.1
87.5°	5.0	5.0	5.0	5.0	6.1	6.1	6.1	6.1	6.1
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)