

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: P581871

Luminaire Tested: **HC620D010-HM60525830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

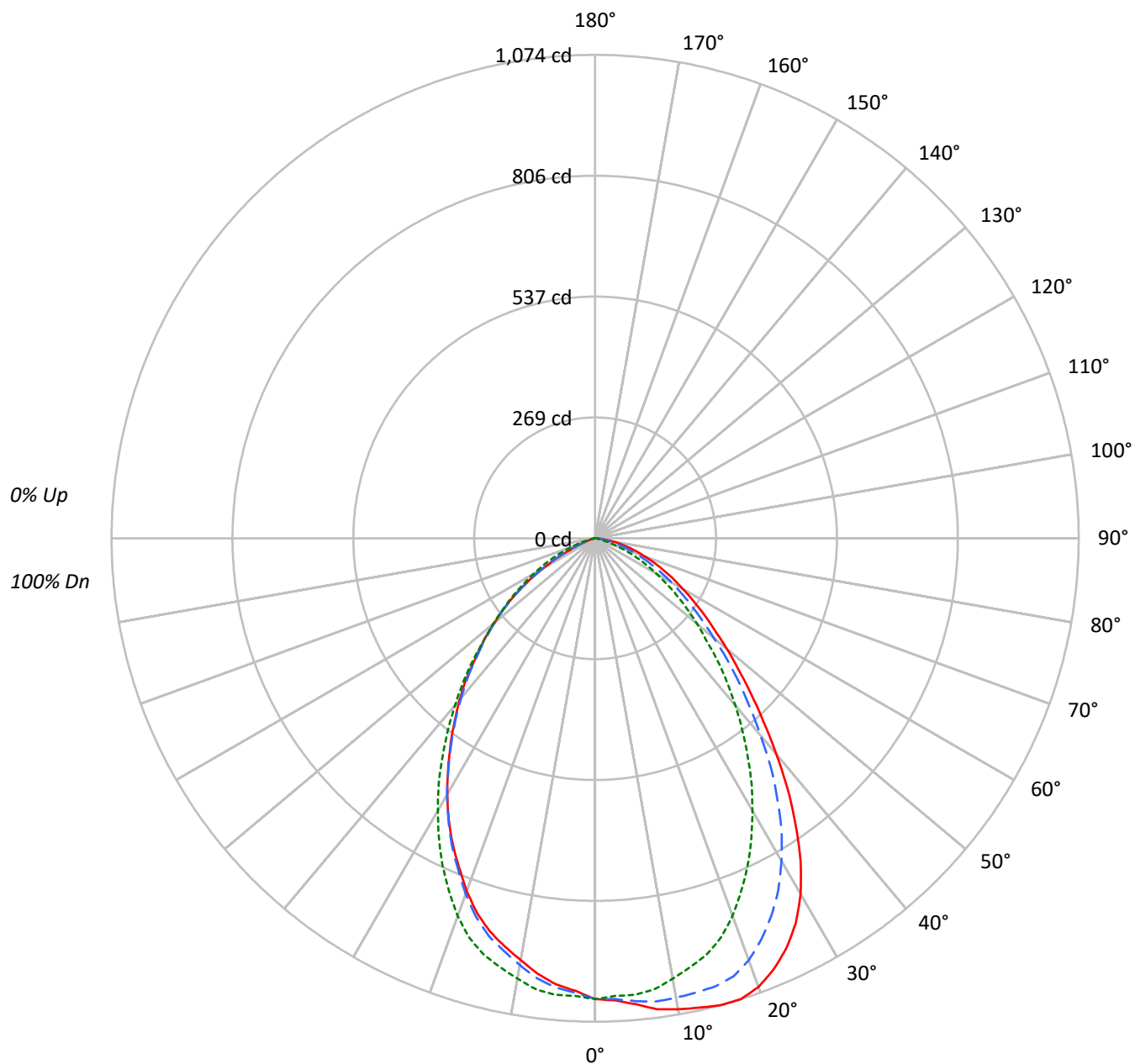
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	105	102	100		101	99	97		97	95	94		94	92	91
2	103	97	91	87	101	95	90	86		91	87	84		88	85	82		85	83	80
3	96	87	80	75	93	86	79	74		83	77	73		80	76	72		78	74	71
4	89	79	71	66	87	78	71	65		75	69	64		73	68	64		71	66	63
5	83	72	64	58	81	71	63	58		69	62	57		67	61	57		65	60	56
6	77	65	58	52	75	65	57	52		63	56	51		61	55	51		60	55	51
7	72	60	52	47	70	59	52	47		58	51	46		56	51	46		55	50	46
8	67	55	48	43	66	55	47	42		53	47	42		52	46	42		51	46	42
9	63	51	44	39	62	51	44	39		50	43	39		49	43	38		48	42	38
10	60	48	40	36	58	47	40	36		46	40	36		45	40	35		45	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56114	56114	56114
5°	57192	56009	54743
10°	59139	55293	52966
15°	60948	54331	51306
20°	61891	52073	48625
25°	60784	48499	45281
30°	57768	44197	41557
35°	51926	39498	37477
40°	44813	34615	33477
45°	37950	29794	29011
50°	32536	25168	24920
55°	28204	21189	20358
60°	24625	17203	14516
65°	21663	13257	8029
70°	18689	8768	3927
75°	15864	4279	1546
80°	12281	1831	884
85°	7296	943	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	5.3
10°-20°	273.1	15.0
20°-30°	384.6	21.1
30°-40°	393.0	21.5
40°-50°	316.9	17.4
50°-60°	212.5	11.7
60°-70°	107.5	5.9
70°-80°	34.4	1.9
80°-90°	5.3	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°	754.4	41.4
0°-40°	1147.3	62.9
0°-60°	1676.7	91.9
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1024	1024	1024	1024	1024	
5°	1039	1032	1018	1002	995	100
15°	1074	1031	957	914	904	303
25°	1005	926	802	753	749	460
35°	776	705	590	557	560	483
45°	490	451	384	371	374	381
55°	295	262	222	212	213	266
65°	167	138	102	68	62	167
75°	75	53	20	7	7	80
85°	12	6	2	2	2	15
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°	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6
2.5°	1027.9	1026.4	1024.9	1022.1	1017.8	1013.5	1010.5	1007.7	1006.2
5°	1039.3	1036.5	1032.2	1026.4	1017.8	1007.7	1001.9	996.1	994.8
7.5°	1055.2	1049.4	1037.9	1024.9	1010.5	996.1	986.0	980.4	976.0
10°	1062.4	1052.3	1036.5	1014.9	993.3	976.0	963.0	954.4	951.5
12.5°	1068.2	1056.6	1033.6	1004.9	976.0	953.0	938.6	931.4	928.5
15°	1073.9	1062.4	1030.7	993.3	957.3	930.0	914.1	907.0	904.0
17.5°	1073.9	1058.1	1020.6	973.1	930.0	896.9	881.0	873.8	872.4
20°	1060.9	1043.7	997.6	941.5	892.6	855.1	840.7	836.4	833.5
22.5°	1036.5	1016.3	964.5	901.2	847.9	811.9	796.0	793.2	790.3
25°	1004.9	984.7	925.7	858.0	801.8	765.8	752.9	750.0	748.6
27.5°	964.5	942.9	881.0	811.9	751.4	716.8	705.4	705.4	703.9
30°	912.6	888.2	827.8	758.7	698.2	666.5	657.8	657.8	656.5
32.5°	849.3	824.8	770.2	703.9	646.4	613.3	606.0	609.0	607.5
35°	775.9	755.7	705.4	640.6	590.2	560.0	557.1	560.0	560.0
37.5°	702.5	683.8	640.6	584.5	536.9	509.6	509.6	513.9	512.5
40°	626.2	611.8	571.5	522.5	483.7	465.0	462.2	466.5	467.8
42.5°	554.3	542.7	508.2	467.8	433.3	414.6	418.9	421.8	423.2
45°	489.5	477.9	450.6	408.8	384.3	371.4	371.4	375.7	374.2
47.5°	431.9	423.2	395.9	355.5	334.0	328.2	331.1	334.0	334.0
50°	381.5	368.6	342.6	310.9	295.1	287.9	290.8	292.2	292.2
52.5°	334.0	325.3	299.5	270.7	256.3	251.9	251.9	253.3	253.3
55°	295.1	285.1	261.9	233.2	221.7	215.9	211.6	210.2	213.0
57.5°	257.6	249.0	227.4	200.1	187.2	181.4	172.8	169.8	172.8
60°	224.6	217.4	195.8	169.8	156.9	145.4	135.3	129.6	132.4
62.5°	195.8	187.2	165.5	144.0	129.6	116.6	100.7	92.1	96.4
65°	167.0	159.8	138.2	116.6	102.2	86.3	67.6	61.9	61.9
67.5°	141.1	133.9	113.8	95.1	77.7	59.0	41.7	40.3	41.7
70°	116.6	109.4	92.1	73.4	54.7	36.0	24.5	24.5	24.5
72.5°	96.4	87.8	71.9	53.3	34.6	18.7	12.9	14.4	14.4
75°	74.9	67.6	53.3	36.0	20.2	8.6	7.3	7.3	7.3
77.5°	56.2	50.4	37.4	23.0	10.1	2.8	2.8	2.8	2.8
80°	38.9	33.1	24.5	14.4	5.8	2.8	2.8	2.8	2.8
82.5°	23.0	20.2	14.4	7.3	2.8	1.5	1.5	1.5	1.5
85°	11.6	10.1	5.8	2.8	1.5	1.5	1.5	1.5	1.5
87.5°	2.8	2.8	1.5	1.5	0.0	1.5	1.5	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)