

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: P581873

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581873
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: HC620D010-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: 2062.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

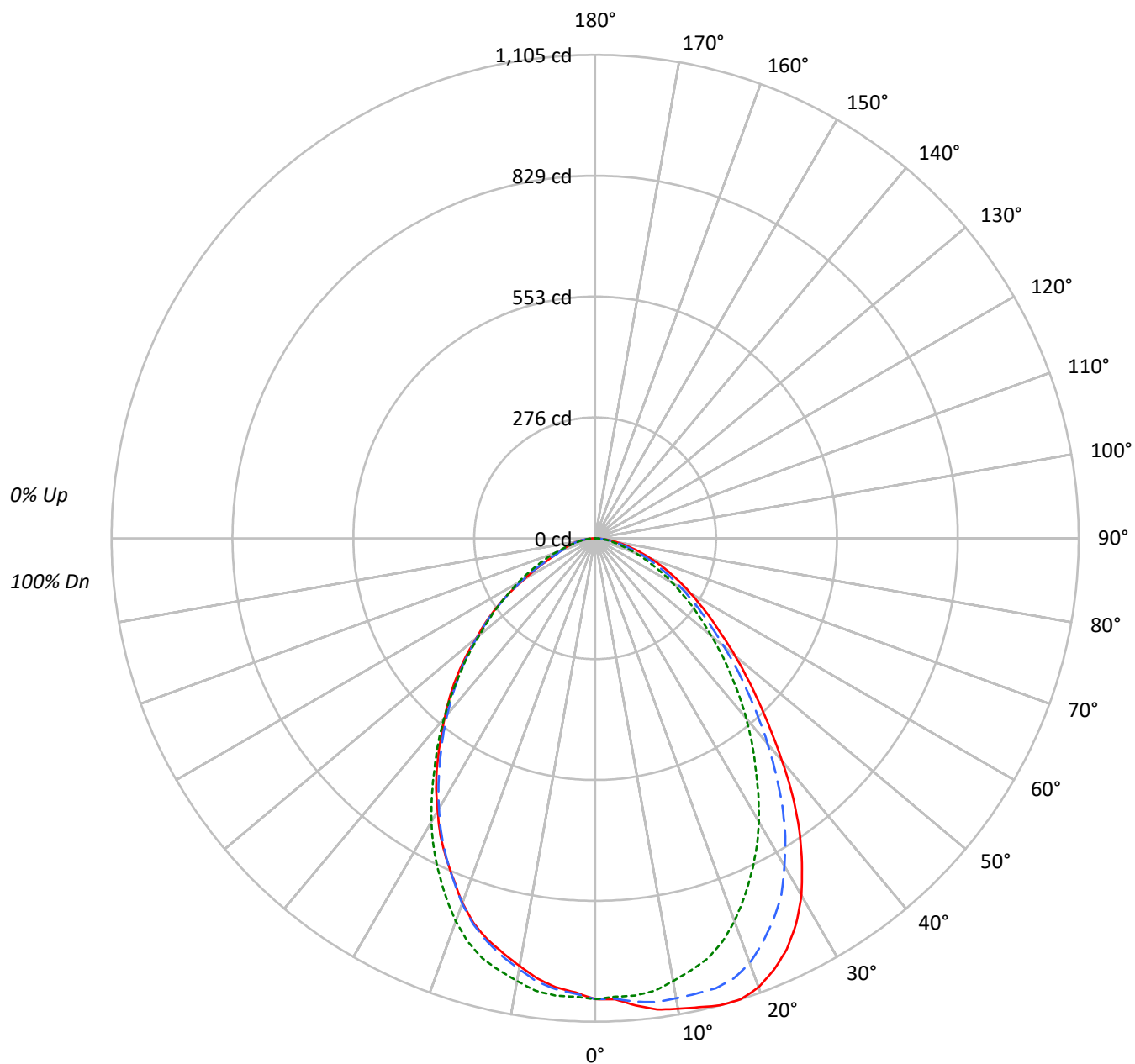
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	57748	57748	57748
5°	58992	57726	56702
10°	60798	57197	55276
15°	62725	56436	53905
20°	63717	54319	51717
25°	62671	51100	48747
30°	59661	47368	45551
35°	54408	42757	42081
40°	47575	38415	38207
45°	40942	33802	34585
50°	35589	29449	30072
55°	31081	25863	26130
60°	27618	22410	20514
65°	24646	18861	15683
70°	21686	15451	13143
75°	18597	12200	12497
80°	14996	10450	12281
85°	10001	9057	10819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	4.8
10°-20°	283.9	13.8
20°-30°	405.3	19.6
30°-40°	424.6	20.6
40°-50°	357.4	17.3
50°-60°	254.4	12.3
60°-70°	148.9	7.2
70°-80°	70.5	3.4
80°-90°	18.1	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°	789.0	38.2
0°-40°	1213.5	58.8
0°-60°	1825.4	88.5
0°-90°	2062.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1053	1053	1053	1053	1053	
5°	1072	1063	1049	1035	1030	103
15°	1105	1065	994	954	950	312
25°	1036	963	845	804	806	474
35°	813	745	639	617	629	505
45°	528	489	436	438	446	410
55°	325	298	271	271	273	293
65°	190	168	145	122	121	189
75°	88	73	58	56	59	94
85°	16	13	14	17	17	21
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°	1053.4	1053.4	1053.4	1053.4	1053.4	1053.4	1053.4	1053.4	1053.4
2.5°	1054.8	1054.8	1053.4	1052.0	1049.0	1044.7	1041.9	1039.0	1039.0
5°	1072.0	1069.2	1063.4	1056.3	1049.0	1040.4	1034.7	1030.4	1030.4
7.5°	1086.4	1080.8	1069.2	1056.3	1043.3	1031.8	1021.7	1016.0	1014.5
10°	1092.2	1085.1	1067.7	1047.7	1027.5	1011.7	1000.1	993.0	993.0
12.5°	1098.0	1089.4	1066.4	1037.6	1011.7	990.1	978.6	972.8	971.3
15°	1105.2	1093.7	1064.9	1028.9	994.4	970.0	954.1	949.8	949.8
17.5°	1105.2	1090.9	1054.8	1010.2	967.0	939.7	925.3	921.0	922.5
20°	1092.2	1076.5	1033.3	978.6	931.1	902.3	887.9	885.0	886.5
22.5°	1067.7	1049.0	1000.1	941.2	889.3	859.2	846.1	846.1	844.8
25°	1036.1	1016.0	962.7	900.8	844.8	814.5	804.4	805.9	805.9
27.5°	994.4	974.3	921.0	854.8	798.7	768.4	761.3	764.1	765.6
30°	942.5	921.0	864.8	800.1	748.3	718.1	713.8	718.1	719.6
32.5°	879.2	863.5	808.7	742.6	693.6	667.7	666.3	670.6	676.4
35°	813.0	795.8	745.4	685.0	638.9	617.4	617.4	624.5	628.8
37.5°	741.1	723.9	677.8	627.5	588.6	568.4	571.3	578.5	580.0
40°	664.8	651.9	613.1	569.9	536.8	521.0	525.3	532.4	533.9
42.5°	592.9	581.3	549.7	510.9	486.4	474.8	480.6	489.2	492.2
45°	528.1	515.2	489.2	456.1	436.0	430.3	437.5	443.2	446.1
47.5°	469.2	457.6	436.0	405.8	391.5	388.5	395.8	398.6	401.5
50°	417.3	405.8	384.2	356.9	345.3	345.3	351.1	354.1	352.6
52.5°	367.0	356.9	336.7	313.7	306.5	306.5	310.8	312.3	315.2
55°	325.2	315.2	297.9	276.3	270.6	267.6	270.6	270.6	273.4
57.5°	286.4	277.7	261.9	241.8	234.5	231.7	230.2	228.9	231.7
60°	251.9	244.6	227.4	210.1	204.4	197.1	191.4	185.6	187.1
62.5°	220.1	213.0	197.1	179.9	174.1	164.1	156.8	149.7	152.5
65°	190.0	182.8	168.4	154.0	145.4	133.8	122.4	118.1	120.9
67.5°	162.6	156.8	142.4	128.0	120.9	108.0	96.4	96.4	97.9
70°	135.3	129.5	118.1	105.0	96.4	84.9	80.6	82.0	82.0
72.5°	110.8	106.5	94.9	83.5	74.8	67.6	67.6	69.1	70.5
75°	87.8	84.9	73.4	63.3	57.6	53.3	56.1	57.6	59.0
77.5°	67.6	63.3	54.7	47.5	43.2	44.6	47.5	48.9	50.4
80°	47.5	46.0	38.9	34.6	33.1	34.6	37.4	38.9	38.9
82.5°	30.3	28.8	24.5	23.0	23.0	24.5	27.3	27.3	27.3
85°	15.9	14.4	12.9	12.9	14.4	15.9	17.2	17.2	17.2
87.5°	5.8	4.3	5.8	5.8	7.3	7.3	7.3	7.3	7.3
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)