

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: P582105

Luminaire Tested: **HC625D010-HM60525935-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582105  
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: HC625D010-HM60525935-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2041.2 lumens  
Efficiency: N/A  
Efficacy: 76.2 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

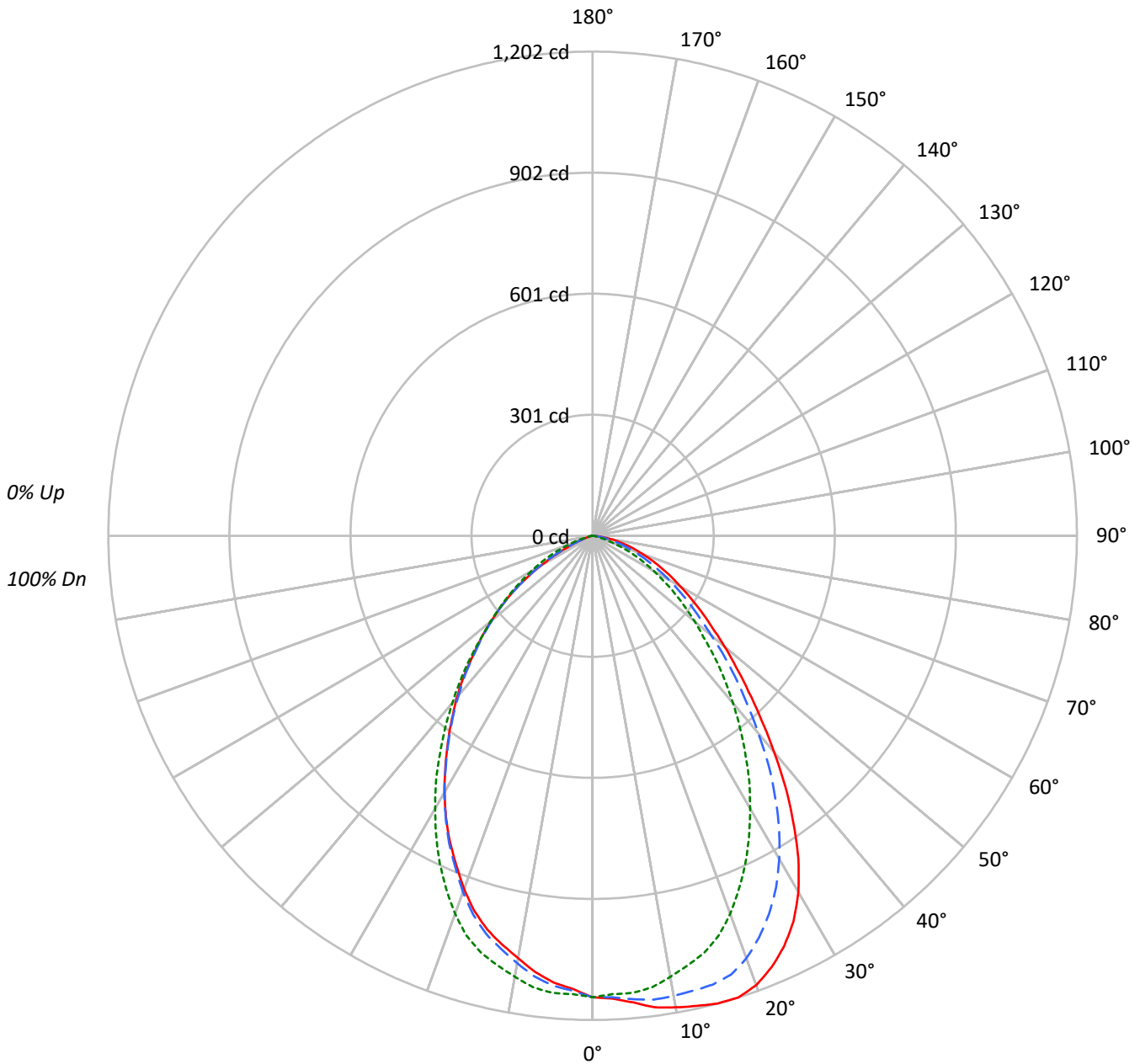
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49								
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44								
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40								
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37								
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	62791	62791	62791
5°	64010	62679	61259
10°	66176	61873	59273
15°	68207	60801	57418
20°	69259	58268	54412
25°	68012	54275	50676
30°	64649	49463	46501
35°	58109	44203	41934
40°	50151	38737	37463
45°	42462	33352	32476
50°	36408	28170	27888
55°	31569	23712	22785
60°	27564	19242	16249
65°	24231	14839	8989
70°	20901	9825	4392
75°	17750	4787	1694
80°	13733	2020	1042
85°	8114	1006	1006



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	5.3
10°-20°	305.7	15.0
20°-30°	430.4	21.1
30°-40°	439.8	21.5
40°-50°	354.6	17.4
50°-60°	237.8	11.7
60°-70°	120.4	5.9
70°-80°	38.5	1.9
80°-90°	5.9	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°	844.2	41.4
0°-40°	1284.0	62.9
0°-60°	1876.4	91.9
0°-90°	2041.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1145	1145	1145	1145	1145	
5°	1163	1155	1139	1121	1113	112
15°	1202	1153	1071	1023	1012	339
25°	1124	1036	897	842	838	515
35°	868	789	660	624	627	540
45°	548	504	430	416	419	426
55°	330	293	248	237	238	297
65°	187	155	114	76	69	187
75°	84	60	23	8	8	90
85°	13	6	2	2	2	17
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°	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4
2.5°	1150.3	1148.6	1147.0	1143.7	1139.0	1134.1	1130.8	1127.7	1126.1
5°	1163.2	1159.9	1155.0	1148.6	1139.0	1127.7	1121.2	1114.8	1113.2
7.5°	1180.8	1174.4	1161.5	1147.0	1130.8	1114.8	1103.5	1097.0	1092.2
10°	1188.8	1177.6	1159.9	1135.7	1111.5	1092.2	1077.7	1068.1	1064.8
12.5°	1195.4	1182.5	1156.6	1124.4	1092.2	1066.4	1050.4	1042.2	1039.1
15°	1201.8	1188.8	1153.4	1111.5	1071.3	1040.6	1022.9	1014.9	1011.7
17.5°	1201.8	1184.1	1142.1	1089.0	1040.6	1003.7	985.9	977.8	976.2
20°	1187.2	1167.9	1116.4	1053.5	998.8	956.9	940.8	936.0	932.7
22.5°	1159.9	1137.3	1079.3	1008.4	948.9	908.6	890.9	887.6	884.4
25°	1124.4	1101.9	1035.9	960.2	897.3	857.1	842.5	839.3	837.8
27.5°	1079.3	1055.2	985.9	908.6	840.9	802.3	789.4	789.4	787.8
30°	1021.3	994.0	926.3	849.0	781.4	745.9	736.3	736.3	734.6
32.5°	950.4	923.1	861.8	787.8	723.4	686.3	678.2	681.4	679.9
35°	868.3	845.8	789.4	716.8	660.5	626.6	623.5	626.6	626.6
37.5°	786.1	765.2	716.8	654.1	600.9	570.2	570.2	575.1	573.5
40°	700.8	684.6	639.5	584.8	541.3	520.4	517.1	522.0	523.5
42.5°	620.2	607.3	568.6	523.5	484.9	464.0	468.7	472.0	473.6
45°	547.7	534.8	504.2	457.5	430.2	415.6	415.6	420.5	418.9
47.5°	483.3	473.6	443.1	398.0	373.8	367.3	370.5	373.8	373.8
50°	426.9	412.4	383.4	348.0	330.3	322.1	325.4	327.0	327.0
52.5°	373.8	364.1	335.1	302.9	286.8	281.9	281.9	283.6	283.6
55°	330.3	319.0	293.2	261.0	248.1	241.7	236.8	235.2	238.4
57.5°	288.3	278.7	254.5	223.9	209.4	203.0	193.3	190.1	193.3
60°	251.4	243.2	219.1	190.1	175.5	162.8	151.5	145.0	148.2
62.5°	219.1	209.4	185.3	161.1	145.0	130.4	112.8	103.1	107.9
65°	186.8	178.8	154.6	130.4	114.4	96.6	75.7	69.3	69.3
67.5°	157.9	149.9	127.3	106.4	87.0	66.0	46.7	45.1	46.7
70°	130.4	122.4	103.1	82.2	61.3	40.2	27.4	27.4	27.4
72.5°	107.9	98.2	80.6	59.6	38.7	20.9	14.5	16.2	16.2
75°	83.8	75.7	59.6	40.2	22.6	9.6	8.0	8.0	8.0
77.5°	62.8	56.4	41.9	25.8	11.3	3.3	3.3	3.3	3.3
80°	43.5	37.1	27.4	16.2	6.4	3.3	3.3	3.3	3.3
82.5°	25.8	22.6	16.2	8.0	3.3	1.6	1.6	1.6	1.6
85°	12.9	11.3	6.4	3.3	1.6	1.6	1.6	1.6	1.6
87.5°	3.3	3.3	1.6	1.6	0.0	1.6	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)