

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: P581997

Luminaire Tested: **HC625D010-HM60525827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581997
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-HM60525827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2103.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

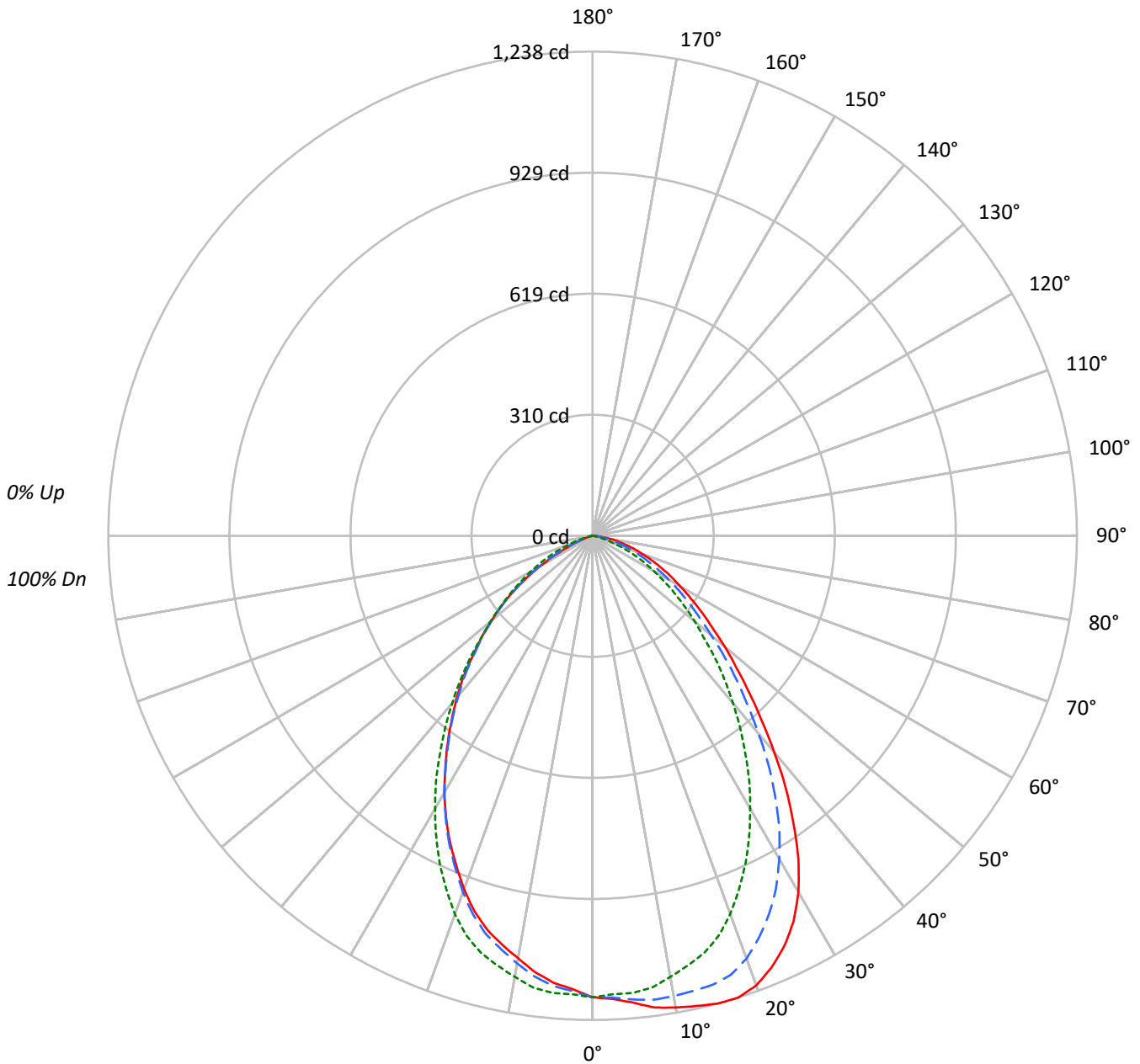
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	67	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°	64693	64693	64693
5°	65947	64572	63113
10°	68185	63749	61071
15°	70273	62645	59160
20°	71365	60036	56069
25°	70075	55921	52207
30°	66612	50964	47906
35°	59869	45541	43212
40°	51668	39910	38601
45°	43756	34360	33453
50°	37508	29023	28733
55°	32525	24429	23473
60°	28386	19834	16742
65°	24983	15293	9262
70°	21542	10098	4520
75°	18279	4914	1758
80°	14175	2084	1042
85°	8366	1006	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	5.3
10°-20°	314.9	15.0
20°-30°	443.5	21.1
30°-40°	453.1	21.5
40°-50°	365.3	17.4
50°-60°	245.0	11.7
60°-70°	124.0	5.9
70°-80°	39.6	1.9
80°-90°	6.1	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°	869.8	41.4
0°-40°	1322.9	62.9
0°-60°	1933.3	91.9
0°-90°	2103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1180	1180	1180	1180	1180	
5°	1198	1190	1173	1155	1147	115
15°	1238	1188	1104	1054	1042	350
25°	1158	1067	924	868	863	530
35°	895	813	680	642	646	557
45°	564	520	443	428	432	439
55°	340	302	256	244	246	306
65°	193	159	118	78	71	192
75°	86	61	23	8	8	93
85°	13	7	2	2	2	18
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°	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1185.1	1183.5	1181.8	1178.4	1173.4	1168.5	1165.2	1161.9	1160.2
5°	1198.4	1195.1	1190.1	1183.5	1173.4	1161.9	1155.3	1148.6	1146.9
7.5°	1216.7	1210.0	1196.7	1181.8	1165.2	1148.6	1137.0	1130.3	1125.3
10°	1224.9	1213.3	1195.1	1170.2	1145.2	1125.3	1110.4	1100.4	1097.1
12.5°	1231.6	1218.3	1191.7	1158.5	1125.3	1098.8	1082.2	1073.9	1070.6
15°	1238.2	1224.9	1188.5	1145.2	1103.8	1072.2	1054.0	1045.6	1042.4
17.5°	1238.2	1219.9	1176.8	1122.1	1072.2	1034.1	1015.8	1007.5	1005.8
20°	1223.3	1203.4	1150.3	1085.5	1029.1	985.9	969.3	964.3	961.1
22.5°	1195.1	1171.8	1112.0	1039.0	977.6	936.1	917.8	914.6	911.2
25°	1158.5	1135.3	1067.3	989.2	924.5	883.0	868.1	864.7	863.1
27.5°	1112.0	1087.2	1015.8	936.1	866.4	826.6	813.3	813.3	811.7
30°	1052.3	1024.1	954.4	874.7	805.1	768.5	758.6	758.6	756.8
32.5°	979.2	951.0	888.0	811.7	745.3	707.1	698.8	702.1	700.4
35°	894.6	871.3	813.3	738.6	680.5	645.7	642.3	645.7	645.7
37.5°	809.9	788.4	738.6	673.9	619.1	587.5	587.5	592.5	590.9
40°	722.0	705.4	659.0	602.6	557.7	536.2	532.8	537.8	539.4
42.5°	639.0	625.7	585.9	539.4	499.6	478.0	483.0	486.3	488.0
45°	564.4	551.1	519.5	471.4	443.2	428.3	428.3	433.2	431.5
47.5°	497.9	488.0	456.5	410.0	385.0	378.4	381.8	385.0	385.0
50°	439.8	424.9	395.1	358.5	340.3	331.9	335.3	336.9	336.9
52.5°	385.0	375.1	345.2	312.0	295.5	290.4	290.4	292.1	292.1
55°	340.3	328.7	302.1	268.9	255.6	249.0	244.0	242.3	245.6
57.5°	297.1	287.2	262.3	230.7	215.8	209.1	199.2	195.8	199.2
60°	258.9	250.6	225.8	195.8	180.9	167.7	156.0	149.4	152.7
62.5°	225.8	215.8	190.8	166.0	149.4	134.4	116.2	106.3	111.3
65°	192.6	184.2	159.4	134.4	117.9	99.6	78.1	71.4	71.4
67.5°	162.6	154.4	131.1	109.5	89.6	68.0	48.1	46.5	48.1
70°	134.4	126.2	106.3	84.7	63.0	41.5	28.2	28.2	28.2
72.5°	111.3	101.2	82.9	61.4	39.8	21.6	14.9	16.5	16.5
75°	86.3	78.1	61.4	41.5	23.2	9.9	8.3	8.3	8.3
77.5°	64.8	58.1	43.1	26.6	11.7	3.3	3.3	3.3	3.3
80°	44.9	38.2	28.2	16.5	6.6	3.3	3.3	3.3	3.3
82.5°	26.6	23.2	16.5	8.3	3.3	1.6	1.6	1.6	1.6
85°	13.3	11.7	6.6	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



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







(END OF REPORT)