

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: P582088

Luminaire Tested: **HCC6S25D010MW-HM60525930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582088
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: HCC6S25D010MW-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
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2117.9 lumens
Efficiency: N/A
Efficacy: 79.0 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

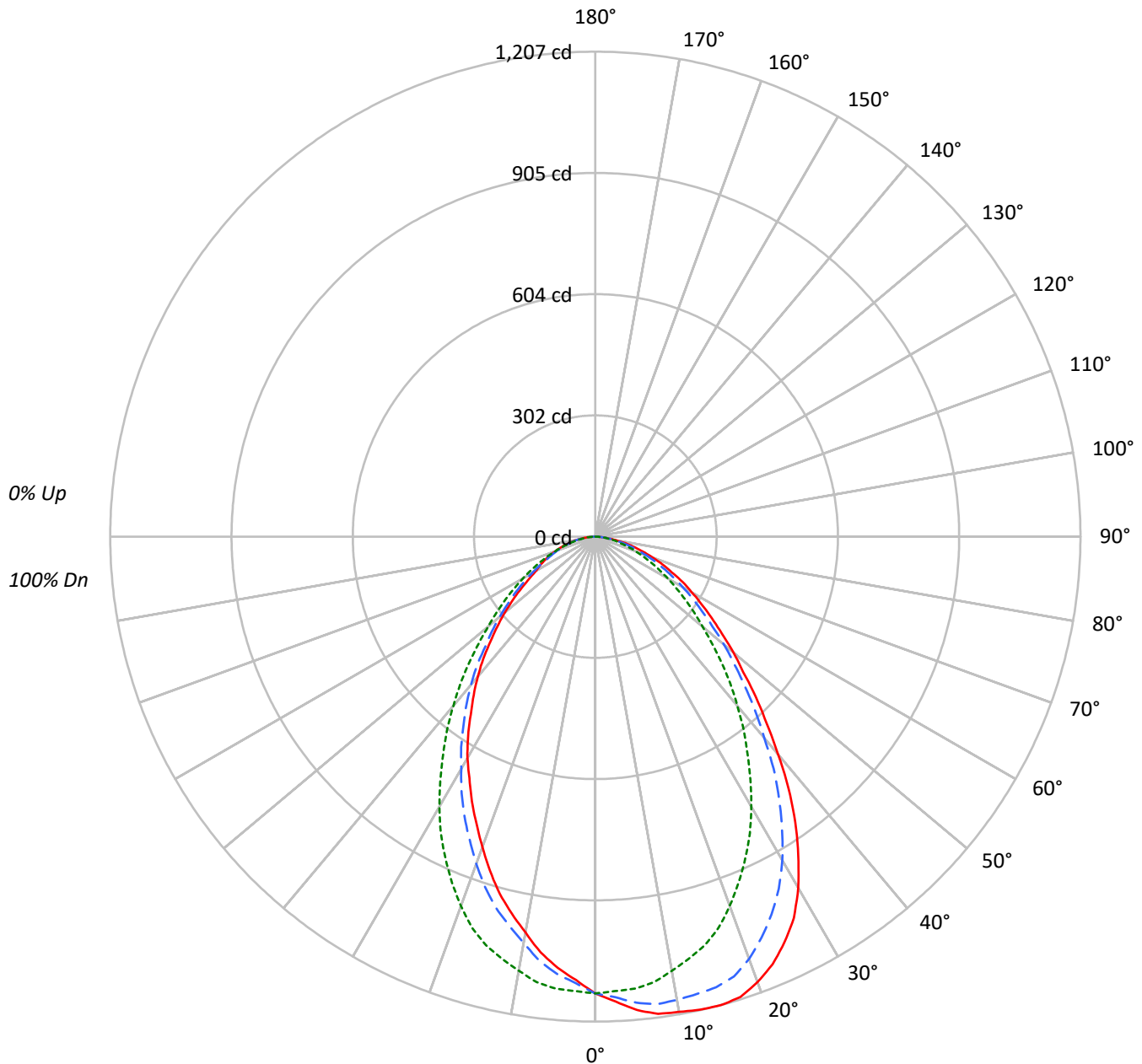
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

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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°	62331	62331	62331
5°	65089	62145	59283
10°	66871	61071	55710
15°	68525	59751	52197
20°	68828	57043	47937
25°	67383	53410	43968
30°	63928	49115	40291
35°	58062	44142	36152
40°	50588	39309	32525
45°	43772	34407	28592
50°	38233	29619	25057
55°	33786	26035	21495
60°	30359	22816	18628
65°	27188	19846	18056
70°	24283	16926	16926
75°	21075	14255	15864
80°	16890	12060	14490
85°	11573	10567	12517

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	5.0
10°-20°	297.0	14.0
20°-30°	414.0	19.5
30°-40°	426.5	20.1
40°-50°	353.5	16.7
50°-60°	254.0	12.0
60°-70°	161.8	7.6
70°-80°	83.1	3.9
80°-90°	21.1	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°	817.8	38.6
0°-40°	1244.4	58.8
0°-60°	1851.9	87.4
0°-90°	2117.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1137	1137	1137	1137	1137	
5°	1183	1164	1129	1093	1077	113
15°	1207	1161	1053	956	920	340
25°	1114	1038	883	770	727	510
35°	868	797	660	572	540	539
45°	565	525	444	387	369	437
55°	354	324	272	242	225	318
65°	210	187	153	133	139	210
75°	100	86	67	70	75	106
85°	18	17	17	18	20	24
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°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0
2.5°	1158.4	1153.8	1147.6	1141.6	1132.3	1121.7	1112.4	1109.4	1104.8
5°	1182.8	1176.7	1164.5	1149.3	1129.3	1109.4	1092.6	1081.8	1077.3
7.5°	1198.1	1190.5	1173.7	1147.6	1118.6	1089.5	1065.0	1049.8	1043.6
10°	1201.3	1193.6	1170.7	1135.5	1097.1	1057.4	1026.8	1008.4	1000.8
12.5°	1205.8	1195.1	1166.0	1124.7	1075.7	1029.8	991.6	968.7	960.9
15°	1207.4	1195.1	1161.4	1110.9	1052.8	997.8	956.4	928.8	919.7
17.5°	1201.3	1187.5	1147.6	1086.5	1020.7	962.6	913.6	884.5	872.2
20°	1179.8	1164.5	1118.6	1049.8	977.8	916.6	866.1	835.5	821.7
22.5°	1152.3	1132.3	1080.3	1006.9	931.9	867.6	817.1	786.5	772.7
25°	1114.0	1095.6	1037.5	959.4	883.0	815.6	769.7	737.5	726.9
27.5°	1069.7	1048.3	988.5	910.4	832.5	765.1	720.7	691.7	677.9
30°	1009.9	990.0	930.4	852.3	775.9	713.1	667.2	642.7	636.5
32.5°	939.5	922.7	864.6	791.1	717.7	659.6	621.2	595.3	589.2
35°	867.6	847.8	797.3	728.4	659.6	607.5	572.2	549.3	540.2
37.5°	789.6	771.2	728.4	667.2	606.0	557.0	526.4	506.5	497.3
40°	706.9	693.2	653.4	604.4	549.3	506.5	480.5	463.6	454.5
42.5°	630.5	616.7	589.2	543.2	497.3	459.1	436.2	420.8	413.1
45°	564.6	552.4	524.9	485.0	443.8	411.6	387.2	376.4	368.8
47.5°	498.8	492.7	468.2	431.5	393.3	365.8	348.8	336.7	330.5
50°	448.3	440.7	417.8	379.5	347.3	325.9	310.6	300.0	293.8
52.5°	396.3	388.7	367.3	335.2	309.1	289.2	273.9	264.8	258.6
55°	353.5	347.3	324.4	295.3	272.4	255.5	241.8	231.1	224.9
57.5°	313.8	307.6	286.2	258.6	238.7	223.4	211.1	202.0	194.3
60°	276.9	272.4	251.0	224.9	208.1	192.8	182.1	174.4	169.9
62.5°	244.8	235.7	217.3	194.3	179.1	166.8	156.1	151.5	154.5
65°	209.6	205.0	186.7	166.8	153.0	140.8	133.1	136.2	139.2
67.5°	180.6	174.4	159.1	140.8	128.6	119.4	114.8	120.9	122.4
70°	151.5	145.3	131.6	116.3	105.6	99.5	99.5	104.0	105.6
72.5°	123.9	119.4	107.1	94.9	87.2	82.6	85.7	88.7	90.3
75°	99.5	94.9	85.7	74.9	67.3	67.3	70.4	73.4	74.9
77.5°	76.6	73.4	64.3	56.6	53.5	53.5	56.6	58.1	59.6
80°	53.5	50.5	45.9	41.3	38.2	41.3	44.4	44.4	45.9
82.5°	35.2	33.7	30.6	27.6	27.6	29.1	30.6	32.1	32.1
85°	18.4	18.4	16.8	15.3	16.8	18.4	18.4	19.9	19.9
87.5°	6.1	6.1	6.1	6.1	7.6	7.6	7.6	7.6	7.6
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°

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