

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: P582062

Luminaire Tested: **HC625D010-HM60525927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.7 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

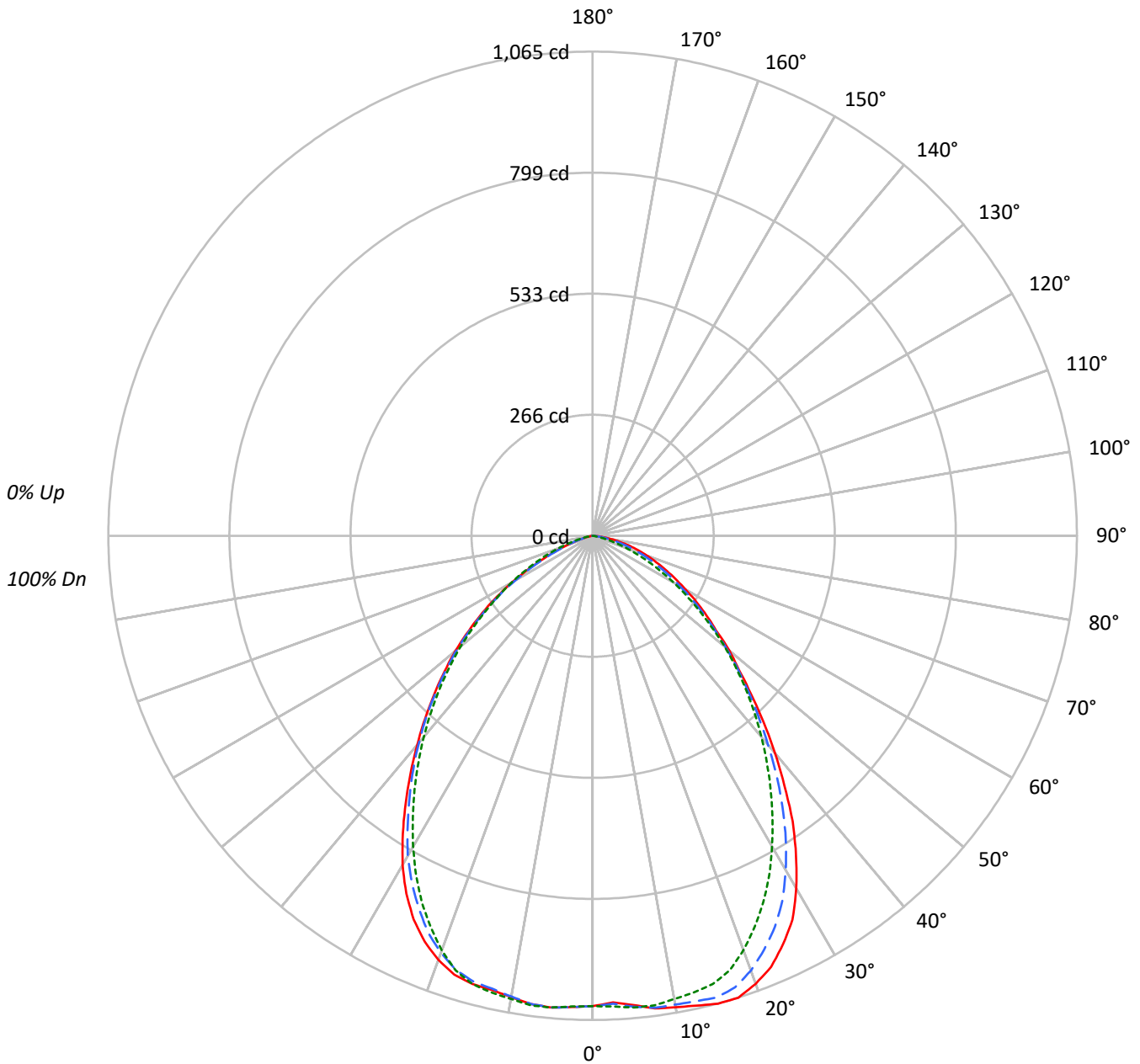
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56717	56717	56717
5°	57011	57319	57319
10°	58605	57592	57353
15°	60466	57923	57923
20°	61174	56594	57901
25°	59949	53761	56308
30°	56705	49963	52888
35°	51317	45695	47937
40°	44648	41327	42930
45°	38151	36849	38151
50°	33483	32280	33594
55°	29208	27201	28271
60°	25831	22597	22279
65°	22921	17810	15280
70°	20228	12598	9216
75°	17220	7138	4469
80°	12817	2210	1357
85°	7108	881	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	4.8
10°-20°	290.3	13.9
20°-30°	424.1	20.3
30°-40°	444.7	21.3
40°-50°	374.7	17.9
50°-60°	262.5	12.6
60°-70°	140.7	6.7
70°-80°	47.2	2.3
80°-90°	5.2	0.2
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°	813.6	39.0
0°-40°	1258.4	60.2
0°-60°	1895.6	90.8
0°-90°	2088.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1035	1035	1035	1035	1035	
5°	1036	1040	1042	1042	1042	100
15°	1065	1051	1021	1015	1021	301
25°	991	949	889	904	931	454
35°	767	728	683	702	716	476
45°	492	484	475	488	492	383
55°	306	296	285	290	296	275
65°	177	161	137	114	118	176
75°	81	63	34	21	21	86
85°	11	6	1	1	1	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°	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1027.6	1027.6	1030.3	1033.1	1036.0	1036.0	1037.4	1038.7	1037.4
5°	1036.0	1036.0	1040.1	1041.6	1041.6	1040.1	1041.6	1041.6	1041.6
7.5°	1048.6	1045.8	1047.1	1044.4	1041.6	1040.1	1038.7	1038.7	1038.7
10°	1052.8	1050.0	1047.1	1041.6	1034.6	1030.3	1029.0	1030.3	1030.3
12.5°	1058.4	1055.5	1048.6	1037.4	1029.0	1021.9	1020.6	1023.3	1023.3
15°	1065.4	1062.5	1051.4	1033.1	1020.6	1013.6	1014.9	1017.7	1020.6
17.5°	1065.4	1059.8	1041.6	1017.7	1002.3	995.3	1000.9	1007.9	1012.2
20°	1048.6	1043.0	1017.7	988.2	970.1	965.8	975.7	988.2	992.5
22.5°	1026.2	1014.9	985.5	950.4	930.9	930.9	944.9	960.3	965.8
25°	991.1	982.7	949.0	908.4	888.8	887.4	904.2	925.2	930.9
27.5°	951.9	940.6	904.2	862.2	841.1	842.5	860.7	881.7	887.4
30°	895.8	881.7	849.5	808.8	789.3	794.9	813.1	828.5	835.5
32.5°	832.7	820.1	790.6	752.8	736.0	741.5	756.9	771.0	776.6
35°	766.8	752.8	727.6	693.9	682.8	688.3	702.3	713.6	716.3
37.5°	692.5	682.8	664.5	637.8	629.4	636.4	647.7	654.7	657.4
40°	623.9	615.3	599.9	580.4	577.5	583.1	594.4	598.6	599.9
42.5°	556.6	549.6	539.7	525.6	525.6	531.3	541.2	543.9	545.3
45°	492.1	487.8	483.7	472.4	475.3	482.3	487.8	492.1	492.1
47.5°	435.9	437.4	431.8	423.4	426.1	433.2	437.4	441.6	441.6
50°	392.6	388.3	382.7	374.3	378.5	384.0	389.7	392.6	393.9
52.5°	342.1	340.7	336.4	326.7	329.4	332.3	337.8	342.1	343.4
55°	305.6	301.3	295.8	284.6	284.6	287.4	290.2	293.0	295.8
57.5°	270.5	266.4	258.0	245.3	244.0	244.0	242.6	245.3	249.5
60°	235.6	234.1	221.5	210.3	206.1	201.9	196.2	197.6	203.2
62.5°	204.6	201.9	190.7	176.7	168.3	161.3	154.2	152.7	158.4
65°	176.7	173.8	161.3	147.2	137.3	124.8	113.5	113.5	117.8
67.5°	151.4	145.8	134.6	119.2	106.5	91.1	79.9	82.7	84.1
70°	126.2	121.9	109.4	94.0	78.6	63.0	56.1	57.5	57.5
72.5°	103.7	98.1	85.5	70.0	54.6	40.6	37.8	36.5	36.5
75°	81.3	75.7	63.0	47.6	33.7	23.8	21.1	21.1	21.1
77.5°	58.9	54.6	43.5	29.4	18.2	11.3	9.8	8.4	8.4
80°	40.6	36.5	26.7	15.4	7.0	4.3	4.3	4.3	4.3
82.5°	23.8	19.7	12.7	7.0	2.8	1.4	1.4	1.4	1.4
85°	11.3	8.4	5.6	2.8	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	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)