

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: P582071

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582071  
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: HC625D010-HM60525927-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2008.7 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

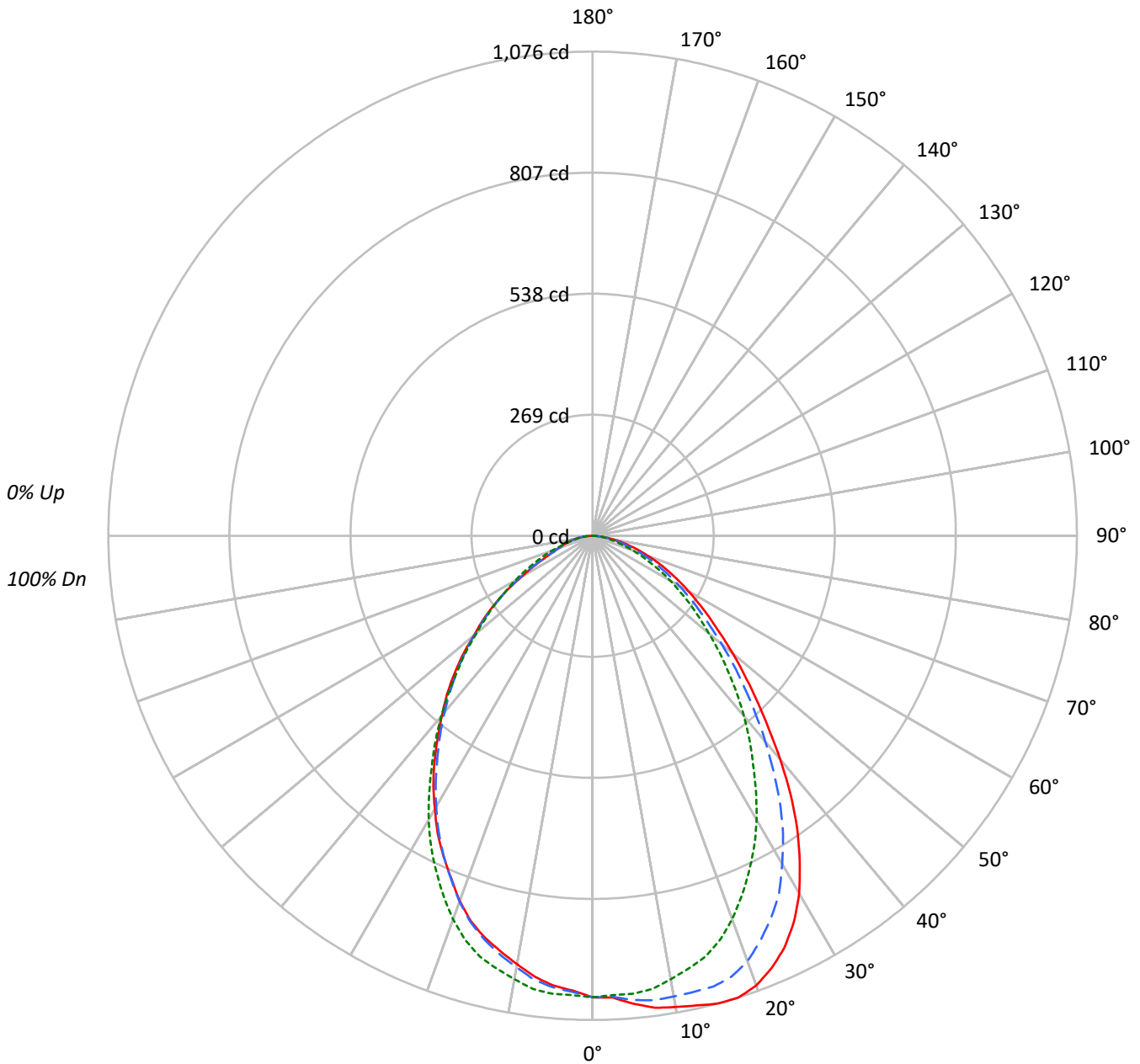
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	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°	56229	56229	56229
5°	57451	56218	55211
10°	59201	55694	53818
15°	61079	54955	52486
20°	62043	52895	50358
25°	61026	49757	47470
30°	58098	46121	44355
35°	52990	41633	40977
40°	46330	37399	37205
45°	39865	32918	33678
50°	34651	28681	29278
55°	30259	25175	25452
60°	26884	21818	19976
65°	23984	18368	15268
70°	21109	15035	12791
75°	18110	11861	12179
80°	14585	10165	11933
85°	9686	8806	10567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	4.8
10°-20°	276.5	13.8
20°-30°	394.7	19.6
30°-40°	413.4	20.6
40°-50°	348.1	17.3
50°-60°	247.7	12.3
60°-70°	145.0	7.2
70°-80°	68.6	3.4
80°-90°	17.7	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°	768.3	38.2
0°-40°	1181.7	58.8
0°-60°	1777.5	88.5
0°-90°	2008.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1026	1026	1026	1026	1026	
5°	1044	1036	1022	1008	1003	100
15°	1076	1037	968	929	925	304
25°	1009	938	823	783	785	462
35°	792	726	622	601	612	492
45°	514	476	425	426	434	399
55°	317	290	263	263	266	285
65°	185	164	142	119	118	184
75°	86	71	56	55	58	92
85°	15	13	14	17	17	20
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°	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7	1025.7
2.5°	1027.1	1027.1	1025.7	1024.3	1021.6	1017.3	1014.6	1011.7	1011.7
5°	1044.0	1041.1	1035.5	1028.6	1021.6	1013.2	1007.5	1003.3	1003.3
7.5°	1057.9	1052.4	1041.1	1028.6	1015.9	1004.7	994.9	989.2	987.9
10°	1063.5	1056.5	1039.7	1020.1	1000.5	985.1	973.8	966.8	966.8
12.5°	1069.2	1060.8	1038.4	1010.3	985.1	964.1	952.9	947.3	945.9
15°	1076.2	1064.9	1037.0	1001.9	968.3	944.5	929.1	924.8	924.8
17.5°	1076.2	1062.2	1027.1	983.7	941.6	915.1	901.0	896.8	898.3
20°	1063.5	1048.1	1006.2	952.9	906.7	878.6	864.6	861.8	863.2
22.5°	1039.7	1021.6	973.8	916.4	865.9	836.5	824.0	824.0	822.6
25°	1008.9	989.2	937.5	877.2	822.6	793.1	783.3	784.8	784.8
27.5°	968.3	948.6	896.8	832.4	777.7	748.3	741.3	744.0	745.5
30°	917.8	896.8	842.1	779.1	728.6	699.2	695.0	699.2	700.7
32.5°	856.2	840.8	787.5	723.1	675.4	650.2	648.8	652.9	658.6
35°	791.8	774.9	725.9	667.0	622.1	601.2	601.2	608.2	612.3
37.5°	721.6	704.8	660.0	611.0	573.1	553.5	556.3	563.3	564.7
40°	647.4	634.8	596.9	555.0	522.6	507.2	511.5	518.5	519.9
42.5°	577.4	566.1	535.3	497.4	473.6	462.4	468.0	476.4	479.3
45°	514.2	501.7	476.4	444.2	424.6	419.0	426.0	431.5	434.4
47.5°	456.8	445.6	424.6	395.2	381.2	378.3	385.3	388.2	390.9
50°	406.3	395.2	374.1	347.5	336.3	336.3	341.9	344.7	343.3
52.5°	357.4	347.5	327.9	305.5	298.5	298.5	302.7	304.1	306.9
55°	316.6	306.9	290.1	269.0	263.4	260.6	263.4	263.4	266.3
57.5°	278.8	270.4	255.0	235.4	228.4	225.7	224.2	222.8	225.7
60°	245.2	238.2	221.4	204.6	199.0	192.0	186.3	180.8	182.2
62.5°	214.4	207.4	192.0	175.2	169.5	159.8	152.7	145.7	148.5
65°	184.9	177.9	163.9	150.0	141.6	130.3	119.2	114.9	117.7
67.5°	158.4	152.7	138.7	124.7	117.7	105.1	93.8	93.8	95.2
70°	131.7	126.1	114.9	102.2	93.8	82.7	78.4	79.8	79.8
72.5°	107.9	103.7	92.5	81.3	72.9	65.9	65.9	67.3	68.7
75°	85.5	82.7	71.4	61.6	56.0	51.9	54.6	56.0	57.5
77.5°	65.9	61.6	53.3	46.2	42.0	43.5	46.2	47.6	49.0
80°	46.2	44.9	37.8	33.6	32.2	33.6	36.5	37.8	37.8
82.5°	29.4	28.1	23.8	22.4	22.4	23.8	26.6	26.6	26.6
85°	15.4	14.0	12.7	12.7	14.0	15.4	16.8	16.8	16.8
87.5°	5.6	4.3	5.6	5.6	7.0	7.0	7.0	7.0	7.0
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)