

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: P582069

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582069
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-HM60525927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1776.1 lumens
Efficiency: N/A
Efficacy: 66.3 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

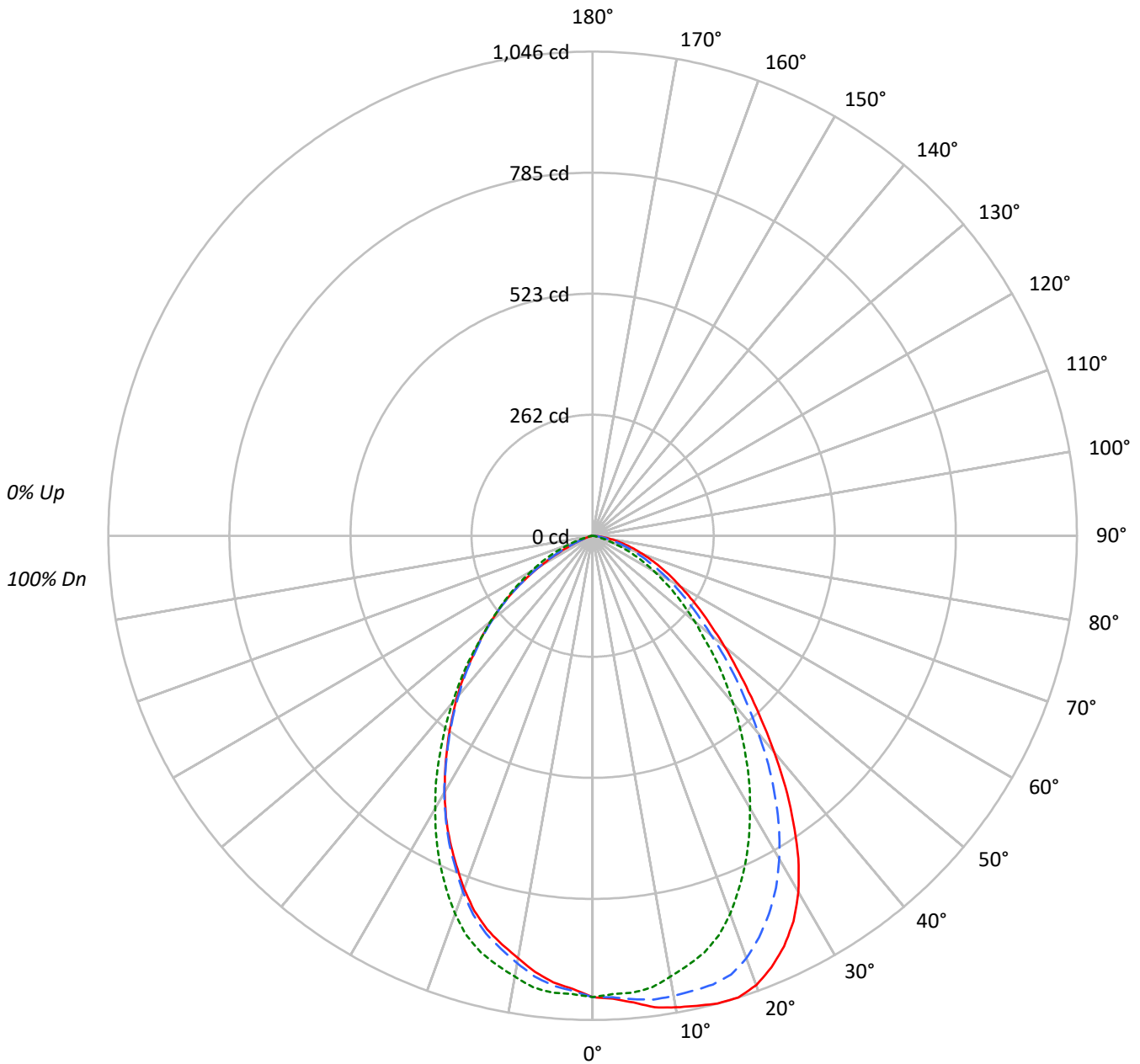
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	54634	54634	54634
5°	55690	54534	53302
10°	57586	53840	51580
15°	59353	52900	49966
20°	60269	50702	47347
25°	59187	47222	44089
30°	56262	43038	40462
35°	50567	38467	36493
40°	43632	33706	32604
45°	36950	29019	28259
50°	31683	24502	24272
55°	27459	20635	19832
60°	23967	16742	14133
65°	21092	12907	7822
70°	18192	8543	3815
75°	15441	4173	1483
80°	11933	1768	884
85°	7045	881	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	5.3
10°-20°	266.0	15.0
20°-30°	374.5	21.1
30°-40°	382.7	21.5
40°-50°	308.5	17.4
50°-60°	206.9	11.7
60°-70°	104.7	5.9
70°-80°	33.5	1.9
80°-90°	5.2	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°	734.6	41.4
0°-40°	1117.2	62.9
0°-60°	1632.7	91.9
0°-90°	1776.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	997	997	997	997	997	
5°	1012	1005	991	976	969	97
15°	1046	1004	932	890	880	295
25°	978	901	781	733	729	448
35°	756	687	575	542	545	470
45°	477	439	374	362	364	371
55°	287	255	216	206	208	259
65°	163	135	100	66	60	162
75°	73	52	20	7	7	78
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°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	1000.9	999.4	998.0	995.3	991.0	986.9	984.0	981.2	979.8
5°	1012.0	1009.3	1005.0	999.4	991.0	981.2	975.6	970.1	968.6
7.5°	1027.5	1021.8	1010.7	998.0	984.0	970.1	960.2	954.5	950.4
10°	1034.5	1024.7	1009.3	988.2	967.2	950.4	937.7	929.4	926.6
12.5°	1040.1	1028.8	1006.4	978.5	950.4	928.0	913.9	906.9	904.2
15°	1045.8	1034.5	1003.7	967.2	932.1	905.5	890.1	883.1	880.4
17.5°	1045.8	1030.3	993.9	947.6	905.5	873.3	857.9	850.9	849.4
20°	1033.1	1016.3	971.5	916.7	869.1	832.6	818.6	814.4	811.6
22.5°	1009.3	989.6	939.1	877.5	825.6	790.6	775.1	772.3	769.6
25°	978.5	958.8	901.3	835.5	780.7	745.8	733.1	730.4	728.9
27.5°	939.1	918.2	857.9	790.6	731.8	698.0	686.9	686.9	685.5
30°	888.8	864.8	806.1	738.8	679.9	649.1	640.7	640.7	639.2
32.5°	827.0	803.2	749.9	685.5	629.4	597.2	590.2	592.9	591.5
35°	755.6	735.9	686.9	623.7	574.8	545.3	542.4	545.3	545.3
37.5°	684.0	665.8	623.7	569.1	522.9	496.2	496.2	500.4	499.1
40°	609.7	595.8	556.5	508.8	471.0	452.7	450.0	454.2	455.6
42.5°	539.7	528.5	494.8	455.6	421.9	403.7	407.9	410.7	412.1
45°	476.6	465.4	438.8	398.1	374.3	361.6	361.6	365.9	364.5
47.5°	420.5	412.1	385.4	346.2	325.2	319.6	322.4	325.2	325.2
50°	371.5	358.9	333.7	302.7	287.3	280.3	283.2	284.6	284.6
52.5°	325.2	316.8	291.6	263.5	249.5	245.3	245.3	246.7	246.7
55°	287.3	277.5	255.1	227.0	215.9	210.3	206.1	204.6	207.5
57.5°	251.0	242.5	221.5	194.8	182.2	176.7	168.2	165.4	168.2
60°	218.6	211.6	190.6	165.4	152.7	141.6	131.8	126.2	128.9
62.5°	190.6	182.2	161.3	140.2	126.2	113.5	98.1	89.7	94.0
65°	162.6	155.6	134.6	113.5	99.5	84.1	65.9	60.3	60.3
67.5°	137.3	130.3	110.8	92.5	75.7	57.5	40.6	39.2	40.6
70°	113.5	106.5	89.7	71.5	53.3	35.1	23.8	23.8	23.8
72.5°	94.0	85.5	70.0	51.9	33.6	18.2	12.7	14.0	14.0
75°	72.9	65.9	51.9	35.1	19.7	8.4	7.0	7.0	7.0
77.5°	54.6	49.1	36.5	22.4	9.8	2.8	2.8	2.8	2.8
80°	37.8	32.2	23.8	14.0	5.6	2.8	2.8	2.8	2.8
82.5°	22.4	19.7	14.0	7.0	2.8	1.4	1.4	1.4	1.4
85°	11.2	9.8	5.6	2.8	1.4	1.4	1.4	1.4	1.4
87.5°	2.8	2.8	1.4	1.4	0.0	1.4	1.4	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)