

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: P581999

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581999
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-HM60525827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2378.6 lumens
Efficiency: N/A
Efficacy: 88.8 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

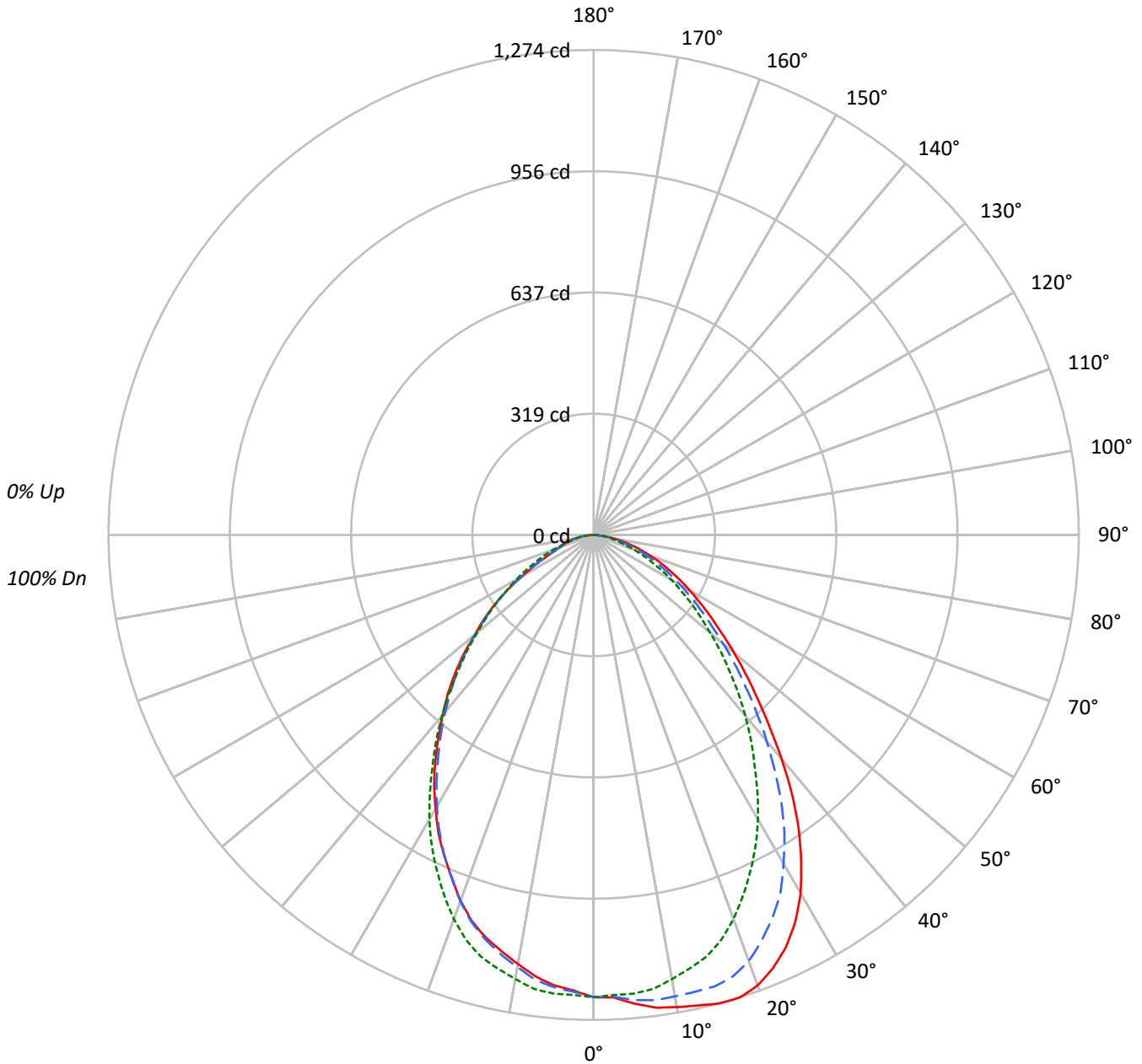
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	66579	66579	66579
5°	68022	66558	65375
10°	70106	65947	63732
15°	72322	65068	62151
20°	73471	62632	59628
25°	72258	58915	56205
30°	68802	54616	52514
35°	62740	49296	48526
40°	54860	44290	44054
45°	47214	38973	39880
50°	41039	33961	34668
55°	35841	29820	30135
60°	31829	25831	23638
65°	28408	21727	18069
70°	25004	17807	15163
75°	21435	14064	14403
80°	17300	12060	14175
85°	11511	10378	12517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	4.8
10°-20°	327.4	13.8
20°-30°	467.3	19.6
30°-40°	489.5	20.6
40°-50°	412.1	17.3
50°-60°	293.4	12.3
60°-70°	171.7	7.2
70°-80°	81.3	3.4
80°-90°	20.9	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°	909.7	38.2
0°-40°	1399.2	58.8
0°-60°	2104.7	88.5
0°-90°	2378.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1214	1214	1214	1214	1214	
5°	1236	1226	1210	1193	1188	119
15°	1274	1228	1146	1100	1095	360
25°	1195	1110	974	928	929	547
35°	938	859	737	712	725	582
45°	609	564	503	504	514	473
55°	375	343	312	312	315	338
65°	219	194	168	141	139	218
75°	101	85	66	65	68	109
85°	18	15	16	20	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°	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5
2.5°	1216.2	1216.2	1214.5	1212.9	1209.5	1204.6	1201.3	1198.0	1198.0
5°	1236.1	1232.8	1226.2	1217.9	1209.5	1199.6	1193.0	1188.0	1188.0
7.5°	1252.7	1246.1	1232.8	1217.9	1202.9	1189.7	1178.1	1171.4	1169.8
10°	1259.4	1251.1	1231.2	1207.9	1184.7	1166.4	1153.1	1144.9	1144.9
12.5°	1266.0	1256.0	1229.4	1196.4	1166.4	1141.6	1128.3	1121.7	1119.9
15°	1274.3	1261.0	1227.8	1186.3	1146.5	1118.3	1100.0	1095.1	1095.1
17.5°	1274.3	1257.6	1216.2	1164.8	1115.0	1083.5	1066.9	1061.9	1063.5
20°	1259.4	1241.1	1191.4	1128.3	1073.6	1040.4	1023.7	1020.4	1022.1
22.5°	1231.2	1209.5	1153.1	1085.1	1025.5	990.6	975.6	975.6	974.0
25°	1194.6	1171.4	1110.0	1038.7	974.0	939.1	927.5	929.2	929.2
27.5°	1146.5	1123.3	1061.9	985.6	920.8	886.0	877.7	881.1	882.7
30°	1086.9	1061.9	997.1	922.6	862.8	828.0	823.0	828.0	829.6
32.5°	1013.8	995.5	932.5	856.2	799.8	769.8	768.2	773.2	779.9
35°	937.5	917.6	859.4	789.8	736.6	711.8	711.8	720.1	725.1
37.5°	854.5	834.6	781.5	723.5	678.6	655.4	658.7	667.0	668.7
40°	766.6	751.7	706.8	657.1	618.9	600.7	605.6	614.0	615.6
42.5°	683.6	670.4	633.8	589.0	560.8	547.6	554.2	564.1	567.5
45°	609.0	594.0	564.1	526.0	502.7	496.1	504.5	511.1	514.4
47.5°	540.9	527.6	502.7	467.9	451.3	447.9	456.3	459.6	463.0
50°	481.2	467.9	443.1	411.5	398.2	398.2	404.8	408.2	406.5
52.5°	423.1	411.5	388.3	361.7	353.5	353.5	358.4	360.1	363.4
55°	375.0	363.4	343.4	318.5	312.0	308.6	312.0	312.0	315.3
57.5°	330.2	320.3	302.0	278.8	270.4	267.1	265.5	263.8	267.1
60°	290.3	282.1	262.1	242.2	235.6	227.3	220.7	214.0	215.6
62.5°	253.9	245.6	227.3	207.4	200.7	189.2	180.8	172.5	175.9
65°	219.0	210.8	194.1	177.6	167.5	154.4	141.1	136.1	139.3
67.5°	187.4	180.8	164.3	147.7	139.3	124.4	111.1	111.1	112.8
70°	156.0	149.4	136.1	121.2	111.1	97.9	93.0	94.6	94.6
72.5°	127.8	122.8	109.5	96.2	86.3	77.9	77.9	79.7	81.3
75°	101.2	97.9	84.6	73.0	66.4	61.4	64.7	66.4	68.0
77.5°	77.9	73.0	63.0	54.8	49.7	51.5	54.8	56.4	58.0
80°	54.8	53.1	44.9	39.8	38.2	39.8	43.1	44.9	44.9
82.5°	34.8	33.2	28.2	26.6	26.6	28.2	31.6	31.6	31.6
85°	18.3	16.5	14.9	14.9	16.5	18.3	19.9	19.9	19.9
87.5°	6.6	5.0	6.6	6.6	8.3	8.3	8.3	8.3	8.3
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)