

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: P582107

Luminaire Tested: **HC625D010-HM60525935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582107
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-HM60525935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2308.5 lumens
Efficiency: N/A
Efficacy: 86.1 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

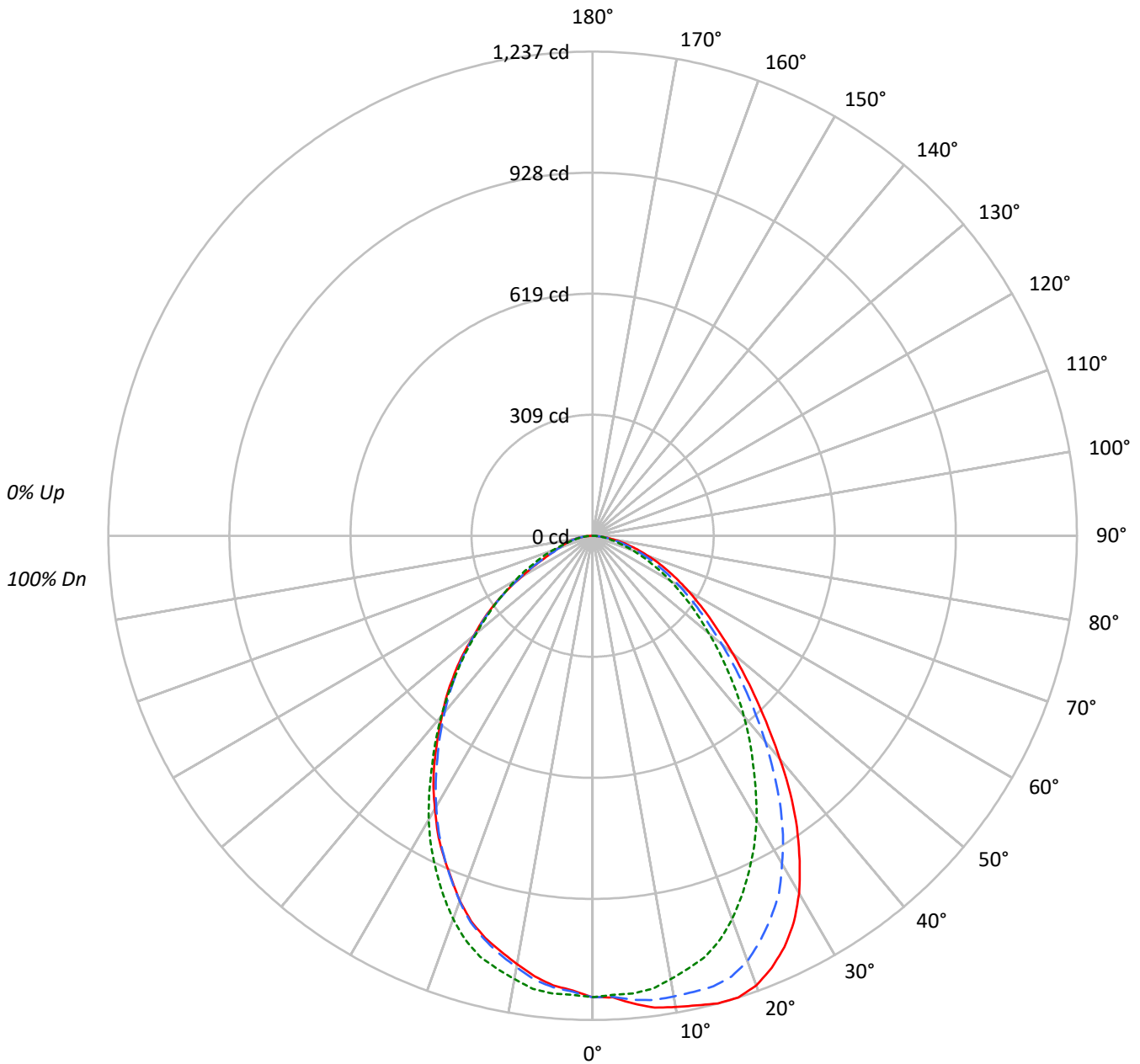
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	64622	64622	64622
5°	66019	64599	63449
10°	68040	64010	61856
15°	70193	63156	60324
20°	71307	60783	57872
25°	70135	57179	54548
30°	66770	53008	50970
35°	60893	47850	47094
40°	53243	42988	42752
45°	45819	37826	38702
50°	39828	32971	33653
55°	34790	28931	29246
60°	30897	25075	22959
65°	27578	21092	17551
70°	24267	17295	14714
75°	20800	13640	13979
80°	16763	11712	13733
85°	11133	10190	12140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	4.8
10°-20°	317.7	13.8
20°-30°	453.6	19.6
30°-40°	475.1	20.6
40°-50°	400.0	17.3
50°-60°	284.7	12.3
60°-70°	166.6	7.2
70°-80°	78.9	3.4
80°-90°	20.3	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°	882.9	38.2
0°-40°	1358.0	58.8
0°-60°	2042.7	88.5
0°-90°	2308.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1179	1179	1179	1179	1179	
5°	1200	1190	1174	1158	1153	115
15°	1237	1192	1113	1068	1063	349
25°	1160	1077	945	900	902	531
35°	910	834	715	691	704	565
45°	591	548	488	490	499	459
55°	364	333	303	303	306	328
65°	213	188	163	137	135	212
75°	98	82	64	63	66	105
85°	18	14	16	19	19	23
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°	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1180.5	1180.5	1178.8	1177.2	1173.9	1169.2	1165.9	1162.7	1162.7
5°	1199.7	1196.5	1190.1	1182.1	1173.9	1164.3	1157.9	1153.0	1153.0
7.5°	1215.9	1209.4	1196.5	1182.1	1167.5	1154.6	1143.4	1137.0	1135.3
10°	1222.3	1214.3	1194.9	1172.3	1149.9	1132.1	1119.2	1111.2	1111.2
12.5°	1228.7	1219.0	1193.4	1161.2	1132.1	1107.9	1095.1	1088.6	1087.0
15°	1236.8	1223.9	1191.7	1151.4	1112.8	1085.3	1067.7	1062.9	1062.9
17.5°	1236.8	1220.7	1180.5	1130.5	1082.2	1051.6	1035.5	1030.6	1032.2
20°	1222.3	1204.6	1156.3	1095.1	1041.9	1009.7	993.6	990.4	992.0
22.5°	1194.9	1173.9	1119.2	1053.1	995.3	961.4	946.9	946.9	945.3
25°	1159.5	1137.0	1077.3	1008.2	945.3	911.4	900.2	901.8	901.8
27.5°	1112.8	1090.2	1030.6	956.5	893.8	859.9	851.9	855.2	856.7
30°	1054.8	1030.6	967.8	895.4	837.4	803.5	798.8	803.5	805.2
32.5°	984.0	966.2	905.0	831.0	776.2	747.2	745.7	750.4	756.9
35°	909.9	890.5	834.2	766.6	715.0	690.9	690.9	698.9	703.7
37.5°	829.4	810.1	758.4	702.2	658.7	636.1	639.3	647.4	648.9
40°	744.0	729.5	686.0	637.8	600.7	583.0	587.8	595.8	597.4
42.5°	663.5	650.6	615.2	571.7	544.3	531.4	537.9	547.6	550.7
45°	591.0	576.5	547.6	510.5	487.9	481.5	489.5	496.1	499.2
47.5°	525.0	512.1	487.9	454.1	438.0	434.8	442.8	446.1	449.3
50°	467.0	454.1	430.0	399.3	386.6	386.6	392.9	396.2	394.6
52.5°	410.6	399.3	376.8	351.1	343.1	343.1	347.8	349.5	352.7
55°	364.0	352.7	333.3	309.2	302.7	299.6	302.7	302.7	306.0
57.5°	320.5	310.9	293.1	270.5	262.5	259.2	257.6	256.1	259.2
60°	281.8	273.8	254.5	235.1	228.7	220.7	214.1	207.7	209.4
62.5°	246.3	238.3	220.7	201.4	194.8	183.6	175.5	167.5	170.7
65°	212.6	204.5	188.5	172.3	162.6	149.7	136.8	132.1	135.3
67.5°	181.9	175.5	159.4	143.3	135.3	120.8	107.9	107.9	109.5
70°	151.4	145.0	132.1	117.5	107.9	95.0	90.2	91.8	91.8
72.5°	124.0	119.2	106.3	93.3	83.7	75.7	75.7	77.3	78.9
75°	98.2	95.0	82.1	70.9	64.4	59.6	62.8	64.4	66.0
77.5°	75.7	70.9	61.1	53.1	48.4	49.9	53.1	54.8	56.4
80°	53.1	51.5	43.5	38.6	37.1	38.6	41.9	43.5	43.5
82.5°	33.8	32.2	27.3	25.8	25.8	27.3	30.6	30.6	30.6
85°	17.7	16.2	14.5	14.5	16.2	17.7	19.3	19.3	19.3
87.5°	6.4	4.9	6.4	6.4	8.0	8.0	8.0	8.0	8.0
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)