

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: P582017

Luminaire Tested: **HC625D010-HM60525830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582017
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-HM60525830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2558.1 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

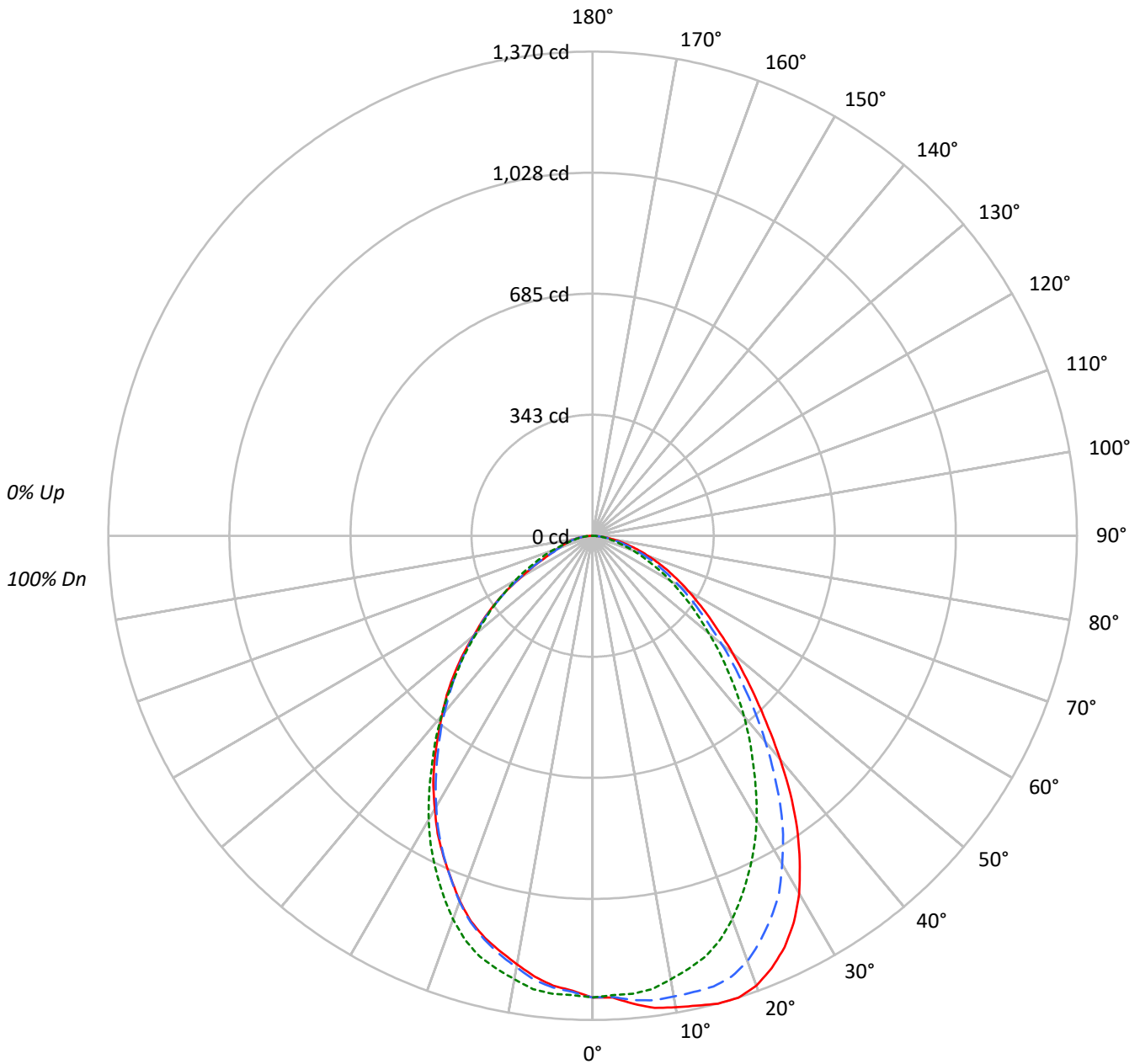
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	71612	71612	71612
5°	73156	71588	70311
10°	75399	70929	68541
15°	77781	69983	66845
20°	79019	67352	64131
25°	77714	63361	60445
30°	73986	58743	56483
35°	67479	53023	52193
40°	59003	47632	47382
45°	50773	41919	42888
50°	44135	36528	37287
55°	38546	32056	32410
60°	34230	27783	25426
65°	30561	23375	19444
70°	26896	19154	16301
75°	23066	15123	15504
80°	18595	12975	15217
85°	12391	11196	13460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	4.8
10°-20°	352.1	13.8
20°-30°	502.6	19.6
30°-40°	526.5	20.6
40°-50°	443.3	17.3
50°-60°	315.5	12.3
60°-70°	184.7	7.2
70°-80°	87.4	3.4
80°-90°	22.5	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°	978.4	38.2
0°-40°	1504.8	58.8
0°-60°	2263.6	88.5
0°-90°	2558.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1306	1306	1306	1306	1306	
5°	1329	1319	1301	1283	1278	128
15°	1370	1320	1233	1183	1178	387
25°	1285	1194	1048	998	999	588
35°	1008	924	792	766	780	626
45°	655	607	541	542	553	508
55°	403	369	335	335	339	363
65°	236	209	180	152	150	235
75°	109	91	71	70	73	117
85°	20	16	18	21	21	25
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°	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3
2.5°	1308.0	1308.0	1306.3	1304.5	1300.9	1295.6	1292.0	1288.5	1288.5
5°	1329.4	1325.9	1318.8	1309.8	1300.9	1290.2	1283.1	1277.7	1277.7
7.5°	1347.4	1340.2	1325.9	1309.8	1293.7	1279.4	1267.0	1259.9	1258.0
10°	1354.5	1345.5	1324.0	1299.1	1274.2	1254.5	1240.2	1231.3	1231.3
12.5°	1361.5	1350.9	1322.3	1286.6	1254.5	1227.7	1213.4	1206.3	1204.5
15°	1370.5	1356.2	1320.5	1275.9	1233.1	1202.8	1183.1	1177.8	1177.8
17.5°	1370.5	1352.6	1308.0	1252.7	1199.1	1165.3	1147.4	1142.1	1143.9
20°	1354.5	1334.8	1281.3	1213.4	1154.5	1118.9	1101.0	1097.5	1099.3
22.5°	1324.0	1300.9	1240.2	1167.0	1102.8	1065.3	1049.3	1049.3	1047.5
25°	1284.8	1259.9	1193.9	1117.0	1047.5	1010.0	997.5	999.3	999.3
27.5°	1233.1	1208.1	1142.1	1060.0	990.4	952.9	944.0	947.5	949.4
30°	1168.8	1142.1	1072.4	992.1	928.0	890.5	885.1	890.5	892.3
32.5°	1090.4	1070.7	1002.9	920.8	860.2	828.0	826.2	831.6	838.8
35°	1008.3	986.9	924.3	849.4	792.3	765.6	765.6	774.5	779.9
37.5°	919.1	897.6	840.5	778.0	729.9	704.9	708.4	717.3	719.1
40°	824.5	808.4	760.2	706.7	665.6	646.0	651.3	660.2	662.1
42.5°	735.3	721.0	681.6	633.5	603.2	588.9	596.1	606.7	610.3
45°	654.9	638.9	606.7	565.7	540.7	533.5	542.4	549.6	553.2
47.5°	581.8	567.5	540.7	503.2	485.4	481.8	490.7	494.3	497.8
50°	517.5	503.2	476.5	442.6	428.3	428.3	435.4	438.9	437.2
52.5°	455.1	442.6	417.6	389.1	380.0	380.0	385.4	387.2	390.8
55°	403.3	390.8	369.4	342.6	335.4	331.9	335.4	335.4	339.1
57.5°	355.1	344.4	324.8	299.8	290.8	287.3	285.6	283.7	287.3
60°	312.2	303.4	281.9	260.5	253.4	244.5	237.3	230.2	231.9
62.5°	273.0	264.1	244.5	223.0	215.9	203.5	194.5	185.6	189.2
65°	235.6	226.7	208.7	191.0	180.2	165.9	151.7	146.4	149.9
67.5°	201.6	194.5	176.7	158.9	149.9	133.8	119.5	119.5	121.3
70°	167.8	160.6	146.4	130.3	119.5	105.3	100.0	101.7	101.7
72.5°	137.5	132.1	117.8	103.5	92.8	83.8	83.8	85.7	87.5
75°	108.9	105.3	91.0	78.6	71.4	66.0	69.5	71.4	73.2
77.5°	83.8	78.6	67.8	58.9	53.5	55.3	58.9	60.6	62.4
80°	58.9	57.1	48.2	42.9	41.1	42.9	46.4	48.2	48.2
82.5°	37.5	35.7	30.3	28.6	28.6	30.3	34.0	34.0	34.0
85°	19.7	17.8	16.0	16.0	17.8	19.7	21.4	21.4	21.4
87.5°	7.1	5.4	7.1	7.1	8.9	8.9	8.9	8.9	8.9
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)