

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: P582357

Luminaire Tested: **HC635D010-HM63040927-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582357
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: HC635D010-HM63040927-61WWBB
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: 2602.1 lumens
Efficiency: N/A
Efficacy: 77.2 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

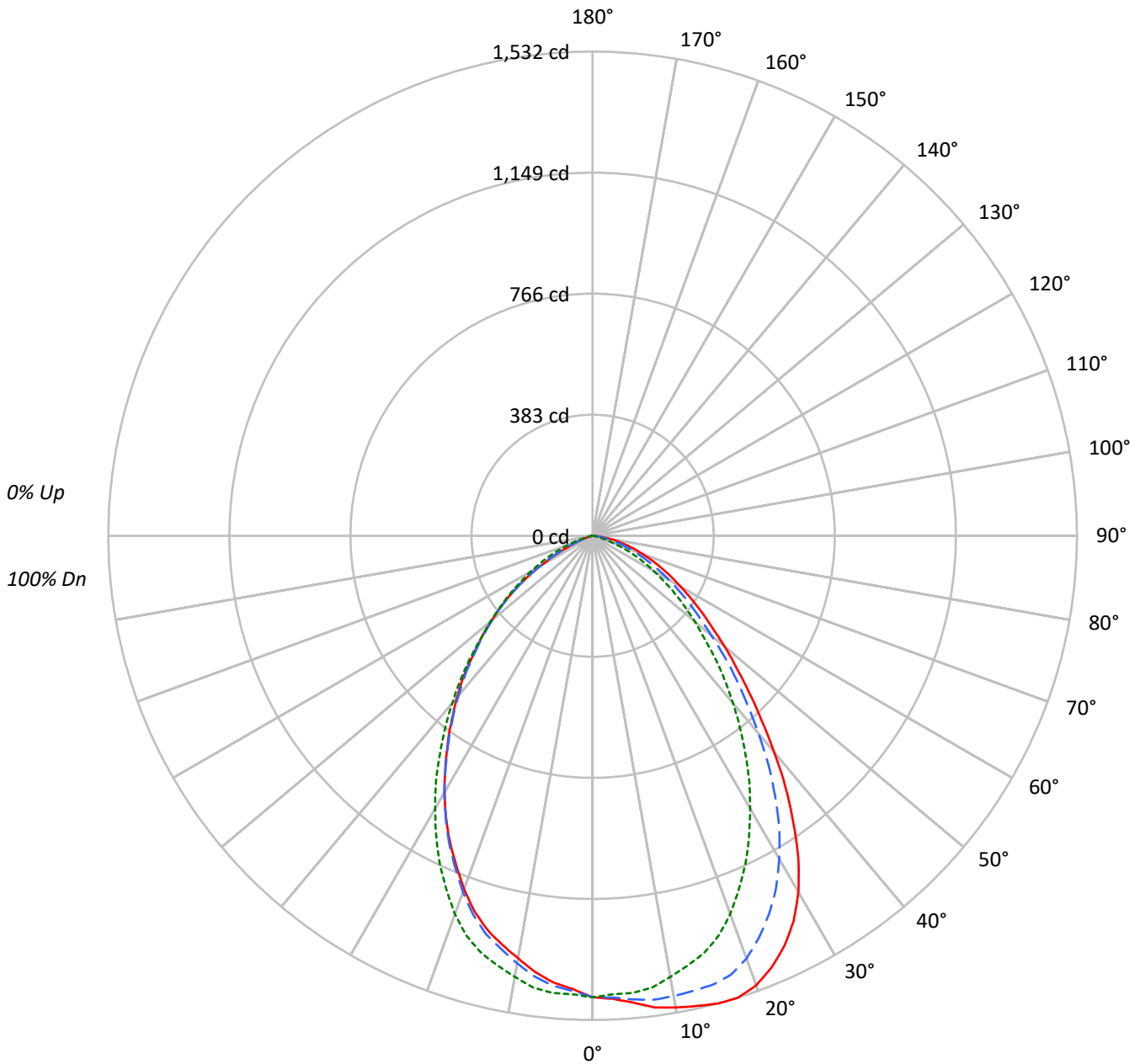
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	80048	80048	80048
5°	81598	79903	78092
10°	84367	78884	75566
15°	86947	77509	73201
20°	88301	74282	69370
25°	86709	69191	64594
30°	82418	63048	59281
35°	74077	56349	53465
40°	63927	49378	47761
45°	54130	42516	41400
50°	46421	35914	35555
55°	40247	30231	29055
60°	35118	24538	20711
65°	30898	18913	11454
70°	26655	12518	5594
75°	22621	6079	2182
80°	17490	2589	1294
85°	10378	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	5.3
10°-20°	389.7	15.0
20°-30°	548.7	21.1
30°-40°	560.6	21.5
40°-50°	452.0	17.4
50°-60°	303.2	11.7
60°-70°	153.4	5.9
70°-80°	49.0	1.9
80°-90°	7.6	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°	1076.2	41.4
0°-40°	1636.8	62.9
0°-60°	2392.0	91.9
0°-90°	2602.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2602.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1460	1460	1460	1460	1460	
5°	1483	1472	1452	1429	1419	143
15°	1532	1470	1366	1304	1290	433
25°	1434	1321	1144	1074	1068	656
35°	1107	1006	842	795	799	689
45°	698	643	548	530	534	543
55°	421	374	316	302	304	379
65°	238	197	146	96	88	238
75°	107	76	29	10	10	115
85°	16	8	2	2	2	22
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°	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2
2.5°	1466.3	1464.2	1462.3	1458.2	1452.0	1445.8	1441.7	1437.6	1435.5
5°	1482.8	1478.7	1472.5	1464.2	1452.0	1437.6	1429.3	1421.2	1419.1
7.5°	1505.3	1497.1	1480.7	1462.3	1441.7	1421.2	1406.8	1398.5	1392.5
10°	1515.6	1501.2	1478.7	1447.9	1417.1	1392.5	1373.9	1361.7	1357.5
12.5°	1523.9	1507.4	1474.5	1433.5	1392.5	1359.6	1339.0	1328.7	1324.7
15°	1532.0	1515.6	1470.4	1417.1	1365.7	1326.6	1304.1	1293.9	1289.8
17.5°	1532.0	1509.5	1456.1	1388.3	1326.6	1279.5	1256.9	1246.6	1244.5
20°	1513.6	1489.0	1423.3	1343.1	1273.3	1219.9	1199.3	1193.3	1189.1
22.5°	1478.7	1449.9	1376.0	1285.6	1209.6	1158.2	1135.7	1131.6	1127.4
25°	1433.5	1404.7	1320.6	1224.1	1143.9	1092.5	1074.1	1070.0	1067.9
27.5°	1376.0	1345.2	1256.9	1158.2	1072.0	1022.8	1006.3	1006.3	1004.3
30°	1302.0	1267.1	1180.9	1082.3	996.0	950.9	938.5	938.5	936.5
32.5°	1211.7	1176.8	1098.7	1004.3	922.2	874.9	864.6	868.7	866.6
35°	1106.9	1078.2	1006.3	913.9	842.0	798.9	794.7	798.9	798.9
37.5°	1002.2	975.5	913.9	833.8	766.0	727.0	727.0	733.2	731.1
40°	893.3	872.8	815.3	745.5	690.0	663.3	659.2	665.4	667.4
42.5°	790.6	774.3	724.9	667.4	618.2	591.4	597.6	601.7	603.8
45°	698.2	681.9	642.8	583.3	548.4	529.8	529.8	536.0	534.0
47.5°	616.1	603.8	564.7	507.3	476.5	468.2	472.4	476.5	476.5
50°	544.3	525.7	488.7	443.6	421.1	410.8	414.9	416.9	416.9
52.5°	476.5	464.1	427.1	386.0	365.5	359.4	359.4	361.4	361.4
55°	421.1	406.6	373.8	332.7	316.3	308.1	301.9	299.8	304.0
57.5°	367.6	355.2	324.5	285.4	267.0	258.7	246.5	242.4	246.5
60°	320.3	310.1	279.3	242.4	223.8	207.4	193.0	184.9	188.9
62.5°	279.3	267.0	236.2	205.4	184.9	166.3	143.8	131.4	137.6
65°	238.2	227.9	197.1	166.3	145.8	123.2	96.5	88.3	88.3
67.5°	201.3	191.0	162.2	135.5	110.9	84.3	59.5	57.5	59.5
70°	166.3	156.0	131.4	104.8	78.1	51.3	34.9	34.9	34.9
72.5°	137.6	125.2	102.7	76.0	49.2	26.7	18.4	20.5	20.5
75°	106.8	96.5	76.0	51.3	28.7	12.4	10.3	10.3	10.3
77.5°	80.1	71.9	53.4	32.9	14.4	4.1	4.1	4.1	4.1
80°	55.4	47.3	34.9	20.5	8.2	4.1	4.1	4.1	4.1
82.5°	32.9	28.7	20.5	10.3	4.1	2.1	2.1	2.1	2.1
85°	16.5	14.4	8.2	4.1	2.1	2.1	2.1	2.1	2.1
87.5°	4.1	4.1	2.1	2.1	0.0	2.1	2.1	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)