

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: P582053

Luminaire Tested: **HC625D010-HM60525840-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582053  
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-HM60525840-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2781.8 lumens  
Efficiency: N/A  
Efficacy: 103.8 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

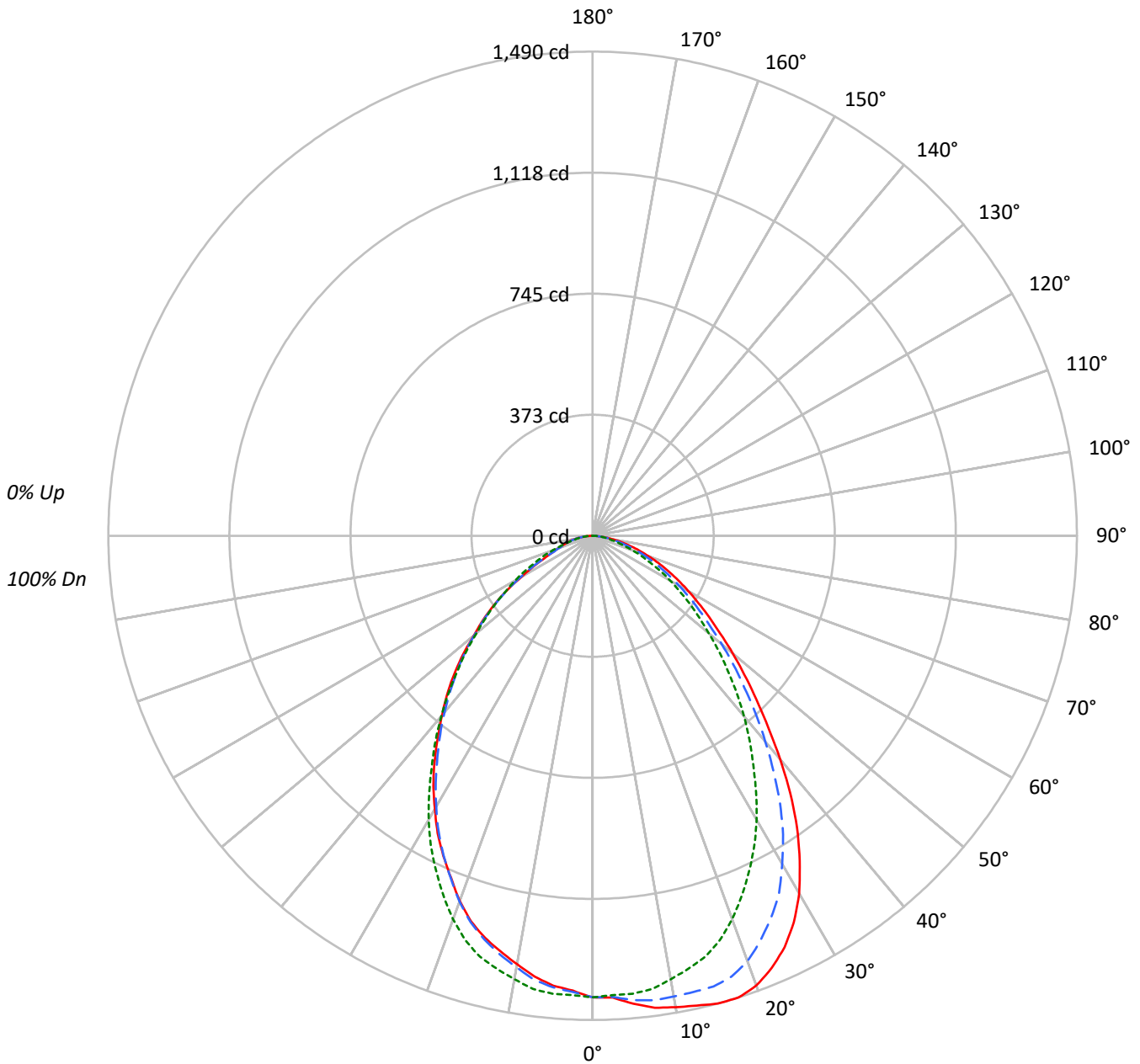
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	77872	77872	77872
5°	79556	77845	76464
10°	81990	77131	74537
15°	84581	76107	72691
20°	85927	73244	69738
25°	84513	68901	65732
30°	80455	63871	61421
35°	73374	57661	56751
40°	64156	51804	51525
45°	55215	45586	46640
50°	47990	39717	40545
55°	41920	34876	35248
60°	37234	30206	27651
65°	33220	25424	21144
70°	29236	20853	17727
75°	25078	16436	16860
80°	20205	14080	16543
85°	13398	12202	14655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.5	4.8
10°-20°	382.9	13.8
20°-30°	546.6	19.6
30°-40°	572.5	20.6
40°-50°	482.0	17.3
50°-60°	343.1	12.3
60°-70°	200.8	7.2
70°-80°	95.0	3.4
80°-90°	24.4	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°	1063.9	38.2
0°-40°	1636.5	58.8
0°-60°	2461.6	88.5
0°-90°	2781.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2781.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1420	1420	1420	1420	1420	
5°	1446	1434	1415	1395	1390	139
15°	1490	1436	1341	1287	1281	421
25°	1397	1298	1139	1085	1087	640
35°	1096	1005	862	832	848	681
45°	712	660	588	590	602	553
55°	439	402	365	365	369	395
65°	256	227	196	165	163	255
75°	118	99	78	76	80	127
85°	21	17	19	23	23	28
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°	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5
2.5°	1422.4	1422.4	1420.5	1418.5	1414.6	1408.9	1405.0	1401.1	1401.1
5°	1445.7	1441.8	1434.1	1424.4	1414.6	1403.0	1395.2	1389.5	1389.5
7.5°	1465.1	1457.4	1441.8	1424.4	1406.9	1391.3	1377.8	1370.0	1368.2
10°	1472.9	1463.3	1439.9	1412.8	1385.6	1364.3	1348.7	1339.0	1339.0
12.5°	1480.7	1469.0	1437.9	1399.1	1364.3	1335.1	1319.5	1311.8	1309.9
15°	1490.3	1474.8	1436.1	1387.6	1341.0	1308.0	1286.6	1280.8	1280.8
17.5°	1490.3	1470.9	1422.4	1362.3	1304.1	1267.2	1247.7	1242.0	1243.9
20°	1472.9	1451.6	1393.3	1319.5	1255.5	1216.8	1197.4	1193.5	1195.4
22.5°	1439.9	1414.6	1348.7	1269.2	1199.2	1158.5	1141.1	1141.1	1139.1
25°	1397.2	1370.0	1298.2	1214.8	1139.1	1098.4	1084.7	1086.7	1086.7
27.5°	1341.0	1313.8	1242.0	1152.8	1077.1	1036.2	1026.6	1030.5	1032.3
30°	1271.0	1242.0	1166.3	1079.0	1009.0	968.3	962.6	968.3	970.3
32.5°	1185.7	1164.3	1090.6	1001.4	935.4	900.4	898.5	904.3	912.1
35°	1096.4	1073.2	1005.2	923.7	861.6	832.5	832.5	842.3	848.0
37.5°	999.4	976.1	914.1	846.2	793.7	766.6	770.5	780.1	782.0
40°	896.5	879.1	826.7	768.5	723.9	702.4	708.3	718.0	720.0
42.5°	799.5	784.0	741.3	688.9	655.9	640.4	648.2	659.8	663.7
45°	712.2	694.7	659.8	615.2	588.0	580.3	589.9	597.7	601.6
47.5°	632.6	617.1	588.0	547.2	527.9	524.0	533.7	537.5	541.4
50°	562.7	547.2	518.1	481.3	465.7	465.7	473.5	477.4	475.4
52.5°	494.8	481.3	454.1	423.0	413.4	413.4	419.1	421.1	425.0
55°	438.6	425.0	401.7	372.6	364.9	361.0	364.9	364.9	368.8
57.5°	386.2	374.5	353.2	326.0	316.3	312.4	310.5	308.6	312.4
60°	339.6	329.9	306.6	283.3	275.5	265.9	258.1	250.3	252.2
62.5°	297.0	287.2	265.9	242.6	234.8	221.3	211.5	201.9	205.7
65°	256.1	246.5	227.0	207.6	196.0	180.4	164.9	159.1	163.0
67.5°	219.3	211.5	192.1	172.7	163.0	145.6	130.1	130.1	131.9
70°	182.4	174.7	159.1	141.7	130.1	114.5	108.6	110.6	110.6
72.5°	149.5	143.6	128.1	112.5	100.9	91.2	91.2	93.1	95.1
75°	118.4	114.5	99.0	85.3	77.6	71.8	75.7	77.6	79.6
77.5°	91.2	85.3	73.8	64.0	58.3	60.1	64.0	66.0	67.9
80°	64.0	62.1	52.4	46.6	44.6	46.6	50.5	52.4	52.4
82.5°	40.7	38.8	33.0	31.1	31.1	33.0	36.8	36.8	36.8
85°	21.3	19.4	17.4	17.4	19.4	21.3	23.3	23.3	23.3
87.5°	7.8	5.8	7.8	7.8	9.6	9.6	9.6	9.6	9.6
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)