

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: P582359

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582359
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: HC635D010-HM63040927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2943.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

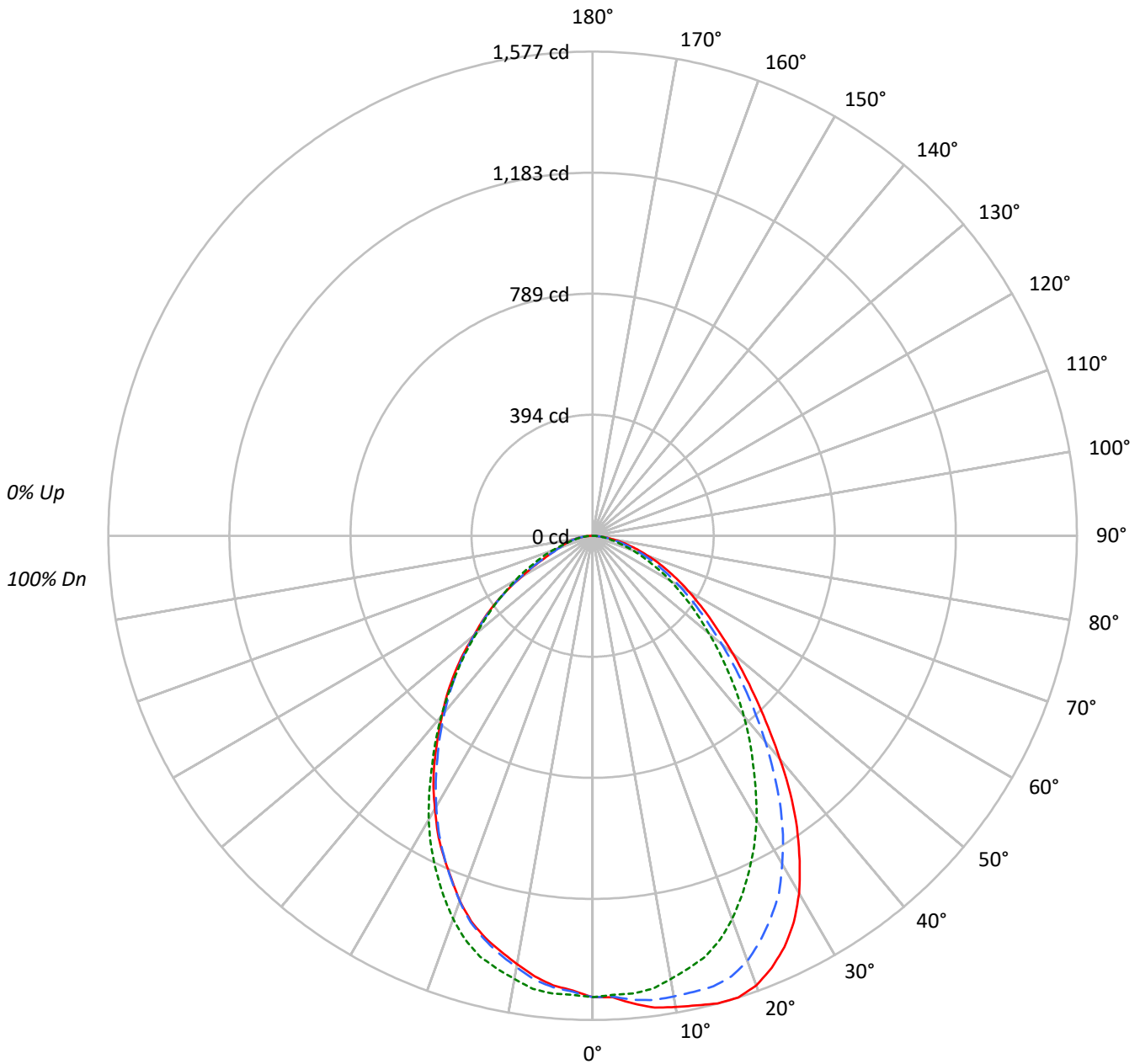
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582359

CATALOG NUMBER: HC635D010-HM63040927-61WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P582359

CATALOG NUMBER: HC635D010-HM63040927-61WWWB

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			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°	82378	82378	82378
5°	84168	82363	80893
10°	86739	81601	78856
15°	89484	80511	76902
20°	90903	77491	73781
25°	89406	72899	69542
30°	85121	67580	64978
35°	77631	61000	60043
40°	67877	54803	54509
45°	58409	48222	49346
50°	50779	42020	42898
55°	44347	36883	37284
60°	39394	31960	29263
65°	35153	26903	22376
70°	30935	22055	18769
75°	26518	17411	17813
80°	21404	14932	17490
85°	14215	12894	15473



TEST NUMBER: P582359

CATALOG NUMBER: HC635D010-HM63040927-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	4.8
10°-20°	405.1	13.8
20°-30°	578.2	19.6
30°-40°	605.7	20.6
40°-50°	509.9	17.3
50°-60°	363.0	12.3
60°-70°	212.5	7.2
70°-80°	100.5	3.4
80°-90°	25.9	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°	1125.6	38.2
0°-40°	1731.3	58.8
0°-60°	2604.2	88.5
0°-90°	2943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1503	1503	1503	1503	1503	
5°	1530	1517	1497	1476	1470	147
15°	1577	1519	1419	1361	1355	445
25°	1478	1373	1205	1148	1150	677
35°	1160	1064	912	881	897	720
45°	753	698	622	624	636	585
55°	464	425	386	386	390	418
65°	271	240	207	174	172	270
75°	125	105	82	80	84	134
85°	23	18	20	25	25	29
90°	0	0	0	0	0	



TEST NUMBER: P582359

CATALOG NUMBER: HC635D010-HM63040927-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1502.7	1502.7	1502.7	1502.7	1502.7	1502.7	1502.7	1502.7	1502.7
2.5°	1504.8	1504.8	1502.7	1500.8	1496.7	1490.5	1486.4	1482.3	1482.3
5°	1529.5	1525.4	1517.2	1506.9	1496.7	1484.3	1476.1	1470.0	1470.0
7.5°	1550.0	1541.8	1525.4	1506.9	1488.4	1472.1	1457.6	1449.4	1447.3
10°	1558.2	1547.9	1523.3	1494.6	1465.9	1443.2	1426.9	1416.6	1416.6
12.5°	1566.5	1554.1	1521.3	1480.2	1443.2	1412.4	1396.1	1387.8	1385.8
15°	1576.7	1560.3	1519.2	1467.9	1418.6	1383.7	1361.2	1355.0	1355.0
17.5°	1576.7	1556.2	1504.8	1441.2	1379.6	1340.6	1320.1	1313.9	1316.0
20°	1558.2	1535.7	1474.0	1396.1	1328.3	1287.2	1266.7	1262.6	1264.7
22.5°	1523.3	1496.7	1426.9	1342.6	1268.8	1225.6	1207.1	1207.1	1205.2
25°	1478.1	1449.4	1373.4	1285.2	1205.2	1162.0	1147.6	1149.7	1149.7
27.5°	1418.6	1389.9	1313.9	1219.5	1139.5	1096.3	1086.0	1090.1	1092.2
30°	1344.7	1313.9	1233.9	1141.4	1067.6	1024.4	1018.3	1024.4	1026.5
32.5°	1254.4	1231.8	1153.8	1059.4	989.5	952.6	950.5	956.7	964.9
35°	1160.0	1135.3	1063.5	977.2	911.5	880.7	880.7	891.0	897.2
37.5°	1057.3	1032.7	967.0	895.1	839.7	810.9	815.0	825.3	827.4
40°	948.5	930.0	874.5	812.9	765.8	743.1	749.3	759.6	761.7
42.5°	845.8	829.4	784.2	728.8	693.9	677.4	685.7	698.0	702.2
45°	753.4	735.0	698.0	650.8	622.0	613.8	624.1	632.3	636.5
47.5°	669.3	652.8	622.0	578.9	558.4	554.3	564.6	568.7	572.8
50°	595.4	578.9	548.1	509.2	492.7	492.7	500.9	505.1	503.0
52.5°	523.5	509.2	480.5	447.5	437.3	437.3	443.5	445.4	449.6
55°	464.0	449.6	425.0	394.2	385.9	381.8	385.9	385.9	390.1
57.5°	408.6	396.2	373.7	344.8	334.7	330.5	328.5	326.4	330.5
60°	359.3	349.0	324.4	299.7	291.5	281.2	273.1	264.8	266.9
62.5°	314.2	303.9	281.2	256.6	248.5	234.1	223.8	213.6	217.6
65°	271.0	260.7	240.2	219.6	207.4	190.9	174.5	168.4	172.5
67.5°	232.0	223.8	203.3	182.8	172.5	153.9	137.6	137.6	139.6
70°	193.0	184.7	168.4	149.8	137.6	121.1	114.9	117.1	117.1
72.5°	158.1	151.9	135.5	119.0	106.8	96.5	96.5	98.5	100.6
75°	125.2	121.1	104.7	90.3	82.2	76.0	80.1	82.2	84.1
77.5°	96.5	90.3	78.1	67.8	61.6	63.6	67.8	69.8	71.9
80°	67.8	65.7	55.4	49.2	47.3	49.2	53.3	55.4	55.4
82.5°	43.1	41.1	34.9	32.8	32.8	34.9	39.0	39.0	39.0
85°	22.6	20.5	18.4	18.4	20.5	22.6	24.6	24.6	24.6
87.5°	8.2	6.2	8.2	8.2	10.3	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)