

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

Report Number: P130099

Luminaire Tested: **HL618TAT - HLM6927 - HL6WFL - 455SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33486)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL618TAT - HLM6927 - HL6WFL - 455SC
Description: HALO ALLSLOPE 6" 30W, Specular Clear Reflector, White Metal Trim
Ring using 55 Degree Optic at a 6-12 Pitch
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2012.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.84 / 1.17
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

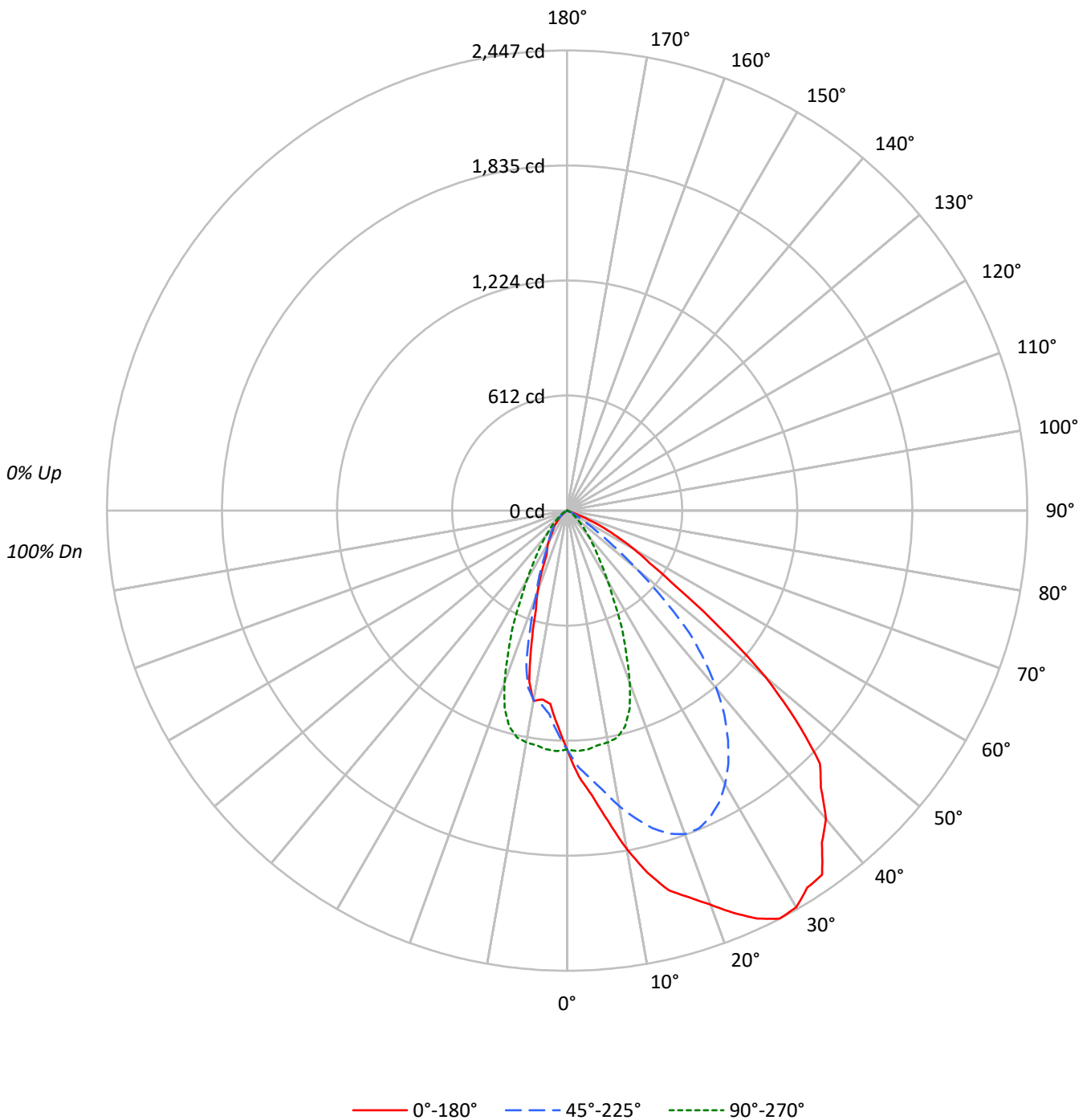
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	58	51	47	57	51	47	55	50	47	45
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	75855	75855	75855
5°	88949	74596	60420
10°	105816	72454	59503
15°	120633	68540	42136
20°	129161	56385	26510
25°	140260	40171	15025
30°	145593	25642	12334
35°	145233	16760	8220
40°	136426	11195	6378
45°	126791	7496	4222
50°	97117	4754	2306
55°	53637	3085	460
60°	33577	1839	0
65°	18102	738	0
70°	2471	202	0
75°	232	116	0
80°	0	274	0
85°	0	339	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	6.1
10°-20°	356.9	17.7
20°-30°	468.4	23.3
30°-40°	488.6	24.3
40°-50°	383.2	19.0
50°-60°	154.6	7.7
60°-70°	35.4	1.8
70°-80°	1.8	0.1
80°-90°	0.7	0.0
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°	947.7	47.1
0°-40°	1436.3	71.4
0°-60°	1974.0	98.1
0°-90°	2012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1271	1271	1271	1271	1271	
5°	1519	1430	1274	1087	1032	155
15°	2091	1748	1188	839	730	590
25°	2394	1799	686	313	256	1101
35°	2364	1492	273	153	134	1450
45°	1901	919	112	72	63	1407
55°	711	191	41	22	6	698
65°	201	30	8	1	0	201
75°	2	2	1	1	0	5
85°	0	1	2	1	0	0
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°	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8
2.5°	1413.8	1367.9	1364.8	1308.6	1280.0	1229.9	1181.9	1157.4	1145.2
5°	1519.0	1457.7	1430.2	1349.5	1273.9	1171.7	1086.9	1047.1	1031.8
7.5°	1665.1	1582.4	1506.8	1374.0	1258.5	1121.7	1041.0	1014.4	1012.4
10°	1827.6	1717.2	1595.7	1402.6	1251.4	1091.0	1023.6	1023.6	1027.7
12.5°	1971.6	1847.0	1675.3	1435.3	1235.1	1048.1	961.3	947.0	930.6
15°	2091.1	1958.3	1747.9	1445.5	1188.1	967.4	838.7	759.0	730.4
17.5°	2155.5	2046.2	1802.0	1432.2	1104.3	834.6	647.7	564.9	552.7
20°	2230.0	2095.2	1830.6	1383.2	973.5	654.8	484.2	464.8	457.7
22.5°	2315.9	2128.9	1829.6	1300.4	818.3	495.5	394.3	366.7	353.5
25°	2393.5	2152.4	1798.9	1198.3	685.5	381.0	312.6	262.5	256.4
27.5°	2446.6	2163.6	1749.9	1077.7	534.3	308.5	239.0	218.6	227.8
30°	2436.4	2158.5	1680.4	956.2	429.1	249.3	195.1	201.2	206.4
32.5°	2377.1	2145.3	1594.6	834.6	338.1	205.3	175.7	171.6	164.5
35°	2363.9	2107.5	1491.5	712.0	272.8	171.6	153.2	137.9	133.8
37.5°	2224.9	2021.6	1375.0	594.5	221.7	146.1	130.8	120.5	119.5
40°	2141.2	1902.1	1237.1	483.2	175.7	125.7	111.3	102.2	100.1
42.5°	1997.1	1746.8	1080.8	366.7	142.0	106.2	93.0	79.7	77.6
45°	1901.1	1568.1	919.4	254.4	112.4	85.8	72.5	65.4	63.3
47.5°	1649.8	1359.7	684.4	176.7	86.8	69.5	57.2	50.1	49.0
50°	1377.0	1096.1	482.2	117.5	67.4	54.1	44.9	36.8	32.7
52.5°	1024.6	791.7	313.6	77.6	53.1	41.9	32.7	22.5	19.4
55°	711.0	538.4	191.0	58.2	40.9	31.7	21.5	11.2	6.1
57.5°	521.0	377.0	117.5	43.9	30.6	22.5	12.3	2.0	0.0
60°	410.7	274.8	73.6	32.7	22.5	14.3	4.1	0.0	0.0
62.5°	296.2	185.9	47.0	22.5	14.3	8.2	1.0	0.0	0.0
65°	201.2	104.2	29.6	15.3	8.2	3.1	1.0	0.0	0.0
67.5°	105.2	49.0	15.3	8.2	4.1	2.0	1.0	0.0	0.0
70°	24.5	15.3	7.2	4.1	2.0	1.0	1.0	0.0	0.0
72.5°	6.1	5.1	3.1	2.0	1.0	1.0	1.0	0.0	0.0
75°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0
77.5°	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
80°	0.0	0.0	1.0	1.0	2.0	1.0	1.0	0.0	0.0
82.5°	0.0	0.0	1.0	1.0	2.0	1.0	1.0	0.0	0.0
85°	0.0	0.0	1.0	1.0	2.0	1.0	1.0	0.0	0.0
87.5°	0.0	0.0	1.0	1.0	2.0	1.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)