

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: P130115

Luminaire Tested: **HL618TAT - HLM6927 - HL6WFL - 456W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33489)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL618TAT - HLM6927 - HL6WFL - 456W
Description: HALO ALLSLOPE 6" 30W, White Coilex Baffle, 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: 2008.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.79 / 1.17
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

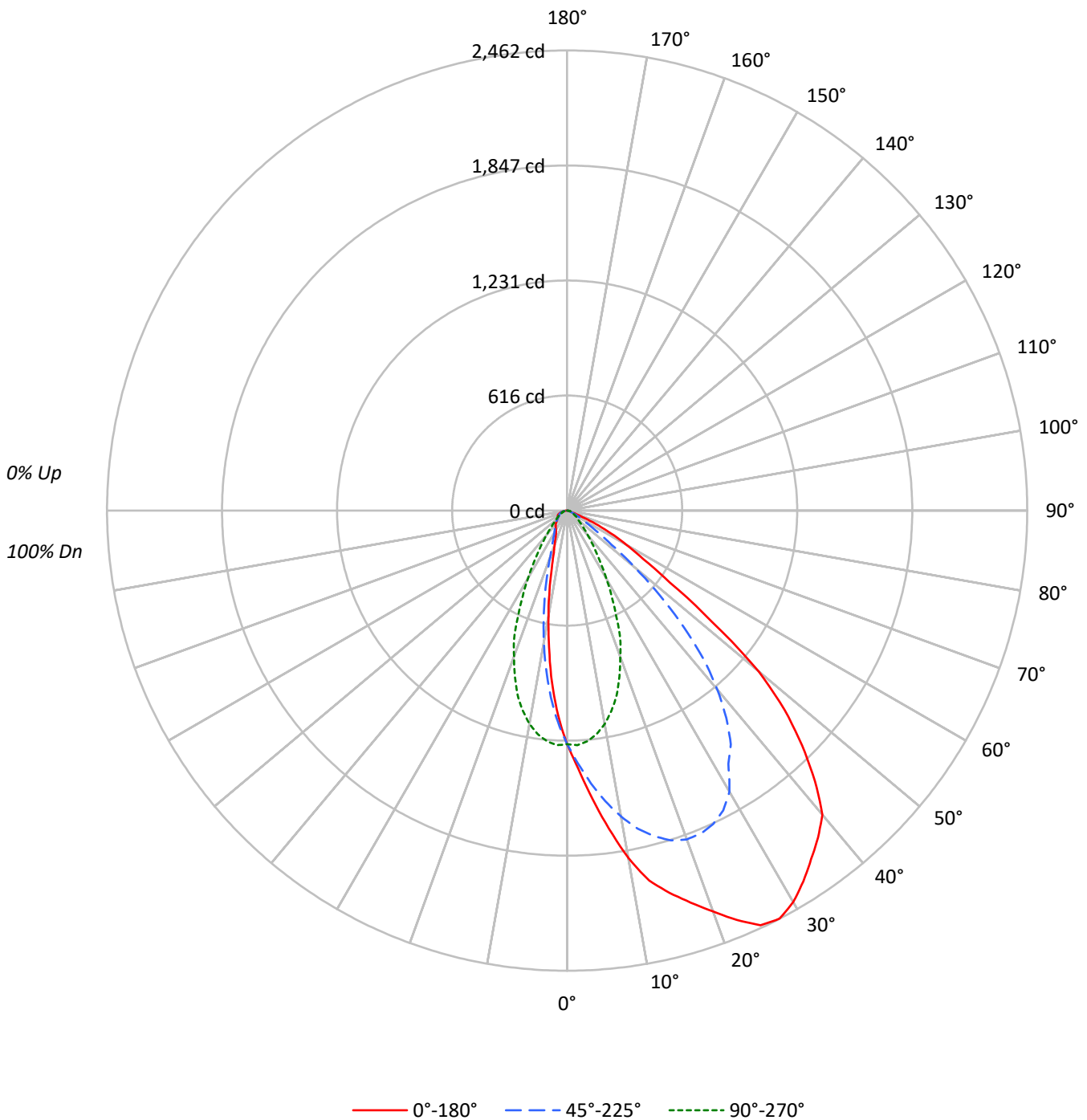
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P130115

CATALOG NUMBER: HL618TAT - HLM6927 - HL6WFL - 456W

Luminous Intensity Polar Plot





TEST NUMBER: P130115

CATALOG NUMBER: HL618TAT - HLM6927 - HL6WFL - 456W

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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	78	72	67	75	70	67	73	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	74566	74566	74566
5°	90623	72535	54324
10°	109307	67110	33344
15°	122139	59016	18241
20°	132214	48155	11341
25°	143460	36326	8286
30°	144541	25026	7135
35°	139857	16404	6562
40°	135362	10806	6072
45°	118508	7610	5309
50°	94381	5685	4803
55°	50552	4579	4345
60°	29963	3597	4791
65°	14980	2924	4714
70°	3067	2643	4328
75°	1216	2420	3763
80°	1001	2016	2866
85°	712	1238	1595



TEST NUMBER: P130115

CATALOG NUMBER: HL618TAT - HLM6927 - HL6WFL - 456W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	5.8
10°-20°	315.9	15.7
20°-30°	448.8	22.4
30°-40°	486.2	24.2
40°-50°	382.6	19.1
50°-60°	168.6	8.4
60°-70°	58.8	2.9
70°-80°	22.7	1.1
80°-90°	7.8	0.4
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°	881.3	43.9
0°-40°	1367.5	68.1
0°-60°	1918.8	95.6
0°-90°	2008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1249	1249	1249	1249	1249	
5°	1548	1465	1239	1003	928	158
15°	2117	1804	1023	456	316	603
25°	2448	1850	620	180	141	1117
35°	2276	1527	267	116	107	1426
45°	1777	886	114	82	80	1357
55°	670	186	61	56	58	661
65°	166	43	32	45	52	175
75°	10	13	21	29	32	14
85°	4	5	7	9	9	4
90°	0	0	0	0	0	



TEST NUMBER: P130115

CATALOG NUMBER: HL618TAT - HLM6927 - HL6WFL - 456W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2	1249.2
2.5°	1382.2	1371.7	1354.9	1301.5	1256.5	1193.7	1133.0	1124.6	1099.4
5°	1547.6	1524.6	1464.9	1349.7	1238.7	1114.1	1003.1	953.9	927.7
7.5°	1716.2	1679.5	1568.5	1383.2	1206.2	1018.8	858.6	789.5	737.2
10°	1887.9	1827.2	1662.8	1403.1	1159.1	911.0	716.2	623.0	575.9
12.5°	2028.2	1959.1	1743.4	1407.3	1096.3	792.6	578.0	474.3	433.5
15°	2117.2	2068.0	1804.1	1397.9	1023.0	675.4	456.5	350.8	316.2
17.5°	2198.9	2136.1	1850.2	1371.7	930.9	562.3	345.5	259.7	234.5
20°	2282.7	2182.1	1872.2	1329.8	831.4	451.3	263.9	210.5	195.8
22.5°	2370.6	2216.7	1870.1	1274.3	743.4	362.3	215.7	177.0	163.3
25°	2448.1	2240.8	1850.2	1197.9	619.9	284.8	180.1	151.8	141.4
27.5°	2461.7	2243.9	1808.3	1103.6	514.1	232.5	156.0	134.0	127.7
30°	2418.8	2231.3	1737.1	996.8	418.8	194.8	136.1	124.6	119.4
32.5°	2351.8	2210.4	1605.2	879.6	335.1	167.5	124.6	117.3	113.1
35°	2276.4	2153.9	1526.7	753.9	267.0	144.5	116.2	111.0	106.8
37.5°	2205.2	2049.2	1397.9	630.3	216.7	125.7	107.9	104.7	101.6
40°	2124.5	1916.2	1250.2	508.9	169.6	113.1	99.5	97.4	95.3
42.5°	1963.3	1743.4	1082.7	381.1	140.3	100.5	91.1	89.0	86.9
45°	1776.9	1548.6	885.8	273.3	114.1	89.0	81.7	80.6	79.6
47.5°	1579.0	1334.0	673.3	185.3	93.2	79.6	73.3	73.3	72.2
50°	1338.2	1074.3	471.2	123.6	80.6	70.2	67.0	66.0	68.1
52.5°	979.0	785.3	299.5	91.1	69.1	62.8	60.7	62.8	63.9
55°	670.1	520.4	186.4	75.4	60.7	55.5	56.5	59.7	57.6
57.5°	482.7	358.1	123.6	61.8	52.4	49.2	52.4	57.6	59.7
60°	366.5	258.6	83.8	51.3	44.0	45.0	49.2	56.5	58.6
62.5°	264.9	172.8	59.7	40.8	37.7	40.8	47.1	54.4	55.5
65°	166.5	96.3	42.9	32.5	32.5	37.7	45.0	51.3	52.4
67.5°	84.8	50.3	29.3	26.2	29.3	35.6	41.9	47.1	48.2
70°	30.4	25.1	20.9	22.0	26.2	32.5	37.7	41.9	42.9
72.5°	14.7	15.7	15.7	18.8	24.1	29.3	33.5	36.6	37.7
75°	10.5	11.5	12.6	15.7	20.9	25.1	29.3	31.4	32.5
77.5°	8.4	9.4	10.5	13.6	17.8	22.0	24.1	26.2	27.2
80°	7.3	7.3	9.4	11.5	14.7	16.8	18.8	20.9	20.9
82.5°	5.2	6.3	7.3	9.4	10.5	12.6	13.6	15.7	15.7
85°	4.2	4.2	5.2	6.3	7.3	8.4	9.4	10.5	9.4
87.5°	2.1	2.1	3.1	3.1	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)