

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: P130133

Luminaire Tested: **HL618TAT - HLM6935 - HL6WFL - 73PS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P130133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33493)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HL618TAT - HLM6935 - HL6WFL - 73PS  
Description: HALO ALLSLOPE 6" 30W, Fresnel Glass Lens, White Polymer Trim Ring  
"Dead Front", Wet Location - Showerlight using 55 Degree Optic at a 6-12  
Pitch  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1771.6 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.91 / 1.12  
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')  
CIE Type: Direct

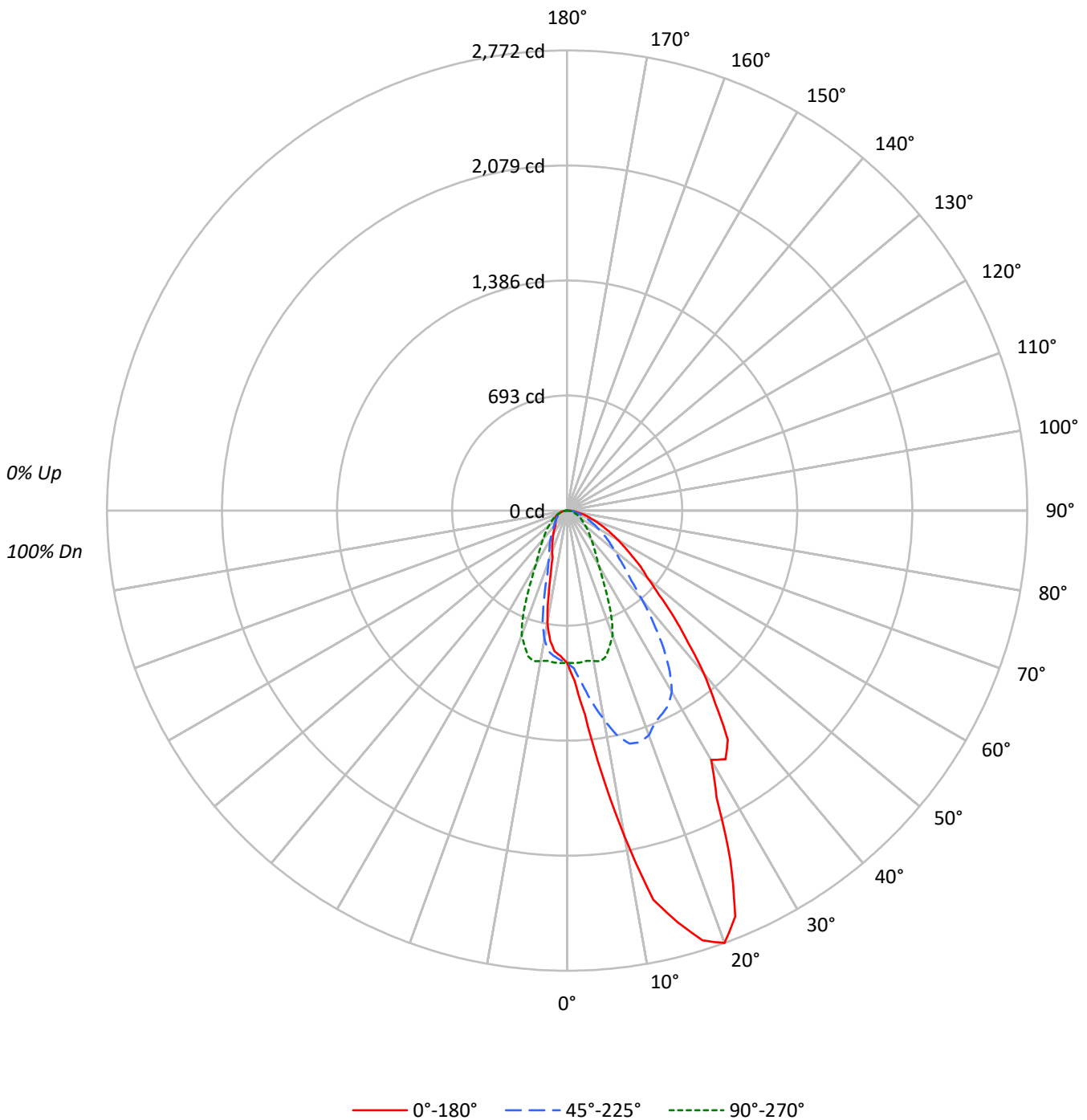
Input Watts (W): 27.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P130133

CATALOG NUMBER: HL618TAT - HLM6935 - HL6WFL - 73PS

### Luminous Intensity Polar Plot





TEST NUMBER: P130133

CATALOG NUMBER: HL618TAT - HLM6935 - HL6WFL - 73PS

**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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	54689	54689	54689
5°	72254	53797	49903
10°	115433	53261	39643
15°	147978	52428	21385
20°	160554	46359	15407
25°	136387	33701	12265
30°	103613	22517	10009
35°	103652	17706	8245
40°	81523	14361	7142
45°	60778	12238	6569
50°	44729	10163	6256
55°	35954	8736	6224
60°	28794	7750	6238
65°	22709	6541	6316
70°	17643	5468	5347
75°	13687	4701	4701
80°	9283	3716	4059
85°	6684	2290	2714



TEST NUMBER: P130133

CATALOG NUMBER: HL618TAT - HLM6935 - HL6WFL - 73PS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	5.4
10°-20°	306.3	17.3
20°-30°	393.8	22.2
30°-40°	360.1	20.3
40°-50°	250.4	14.1
50°-60°	170.9	9.6
60°-70°	112.2	6.3
70°-80°	60.8	3.4
80°-90°	20.8	1.2
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°	796.3	44.9
0°-40°	1156.4	65.3
0°-60°	1577.8	89.1
0°-90°	1771.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1771.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	916	916	916	916	916	
5°	1234	1052	919	882	852	143
15°	2565	1453	909	530	371	724
25°	2327	1352	575	252	209	1046
35°	1687	1014	288	155	134	1004
45°	911	491	184	103	98	709
55°	477	291	116	78	82	432
65°	252	156	73	59	70	254
75°	118	75	41	37	41	125
85°	39	23	14	14	16	40
90°	0	0	0	0	0	



TEST NUMBER: P130133

CATALOG NUMBER: HL618TAT - HLM6935 - HL6WFL - 73PS

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2
2.5°	1024.6	979.0	951.9	939.6	919.9	896.5	901.4	876.8	878.0
5°	1233.9	1148.9	1051.6	967.9	918.7	878.0	881.7	852.2	852.2
7.5°	1594.7	1414.9	1167.4	1008.5	912.5	866.9	855.8	795.5	786.9
10°	1993.7	1717.9	1279.5	1033.2	919.9	850.9	785.7	703.1	684.7
12.5°	2401.3	2034.3	1387.8	1051.6	929.7	800.4	683.4	554.1	513.5
15°	2565.1	2252.3	1453.1	1068.9	908.8	731.5	529.5	386.7	370.7
17.5°	2715.3	2336.0	1462.9	1089.8	852.2	615.7	387.9	320.2	290.6
20°	2772.0	2286.8	1439.5	1086.1	800.4	471.6	326.3	279.5	266.0
22.5°	2646.4	2125.5	1381.7	1048.0	699.5	373.1	283.2	245.1	236.4
25°	2327.4	1893.9	1352.1	992.5	575.1	320.2	252.4	216.7	209.3
27.5°	1949.4	1711.7	1320.1	900.2	460.6	283.2	225.4	195.8	185.9
30°	1733.9	1623.0	1261.0	779.5	376.8	250.0	199.5	172.4	167.5
32.5°	1775.7	1610.7	1151.4	655.1	327.6	221.7	178.6	152.7	150.2
35°	1687.1	1472.8	1013.5	517.2	288.2	194.6	155.2	135.5	134.2
37.5°	1465.4	1272.1	855.8	426.1	254.9	172.4	137.9	121.9	114.5
40°	1279.5	1088.6	701.9	368.2	225.4	153.9	124.4	112.1	112.1
42.5°	1078.7	919.9	575.1	326.3	203.2	139.2	114.5	104.7	104.7
45°	911.3	757.3	491.3	290.6	183.5	125.6	103.4	96.1	98.5
47.5°	751.2	635.4	423.6	261.1	163.8	113.3	96.1	89.9	92.4
50°	634.2	544.3	371.9	230.3	144.1	102.2	88.7	86.2	88.7
52.5°	560.3	474.1	327.6	202.0	129.3	93.6	82.5	83.7	86.2
55°	476.6	411.3	290.6	177.3	115.8	86.2	77.6	78.8	82.5
57.5°	407.6	355.9	248.7	156.4	103.4	78.8	72.7	76.3	80.0
60°	352.2	309.1	215.5	137.9	94.8	71.4	67.7	73.9	76.3
62.5°	301.7	266.0	185.9	118.2	82.5	65.3	65.3	70.2	75.1
65°	252.4	222.9	156.4	101.0	72.7	59.1	59.1	66.5	70.2
67.5°	210.6	187.2	131.8	88.7	64.0	53.0	53.0	57.9	64.0
70°	174.9	153.9	109.6	73.9	54.2	46.8	46.8	49.3	53.0
72.5°	141.6	124.4	92.4	61.6	46.8	39.4	41.9	44.3	45.6
75°	118.2	102.2	75.1	50.5	40.6	34.5	36.9	38.2	40.6
77.5°	92.4	80.0	59.1	41.9	34.5	29.6	30.8	33.2	34.5
80°	67.7	59.1	44.3	32.0	27.1	24.6	25.9	29.6	29.6
82.5°	51.7	46.8	32.0	24.6	20.9	18.5	19.7	20.9	22.2
85°	39.4	30.8	23.4	16.0	13.5	12.3	13.5	14.8	16.0
87.5°	23.4	19.7	14.8	9.9	8.6	7.4	7.4	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)