

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: P130135

Luminaire Tested: **HL618TAT - HLM6927 - HL6WFL - ERT702**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33494)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL618TAT - HLM6927 - HL6WFL - ERT702
Description: HALO ALLSLOPE 6" 30W, Drop Opal Plastic 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1533.0 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.89 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

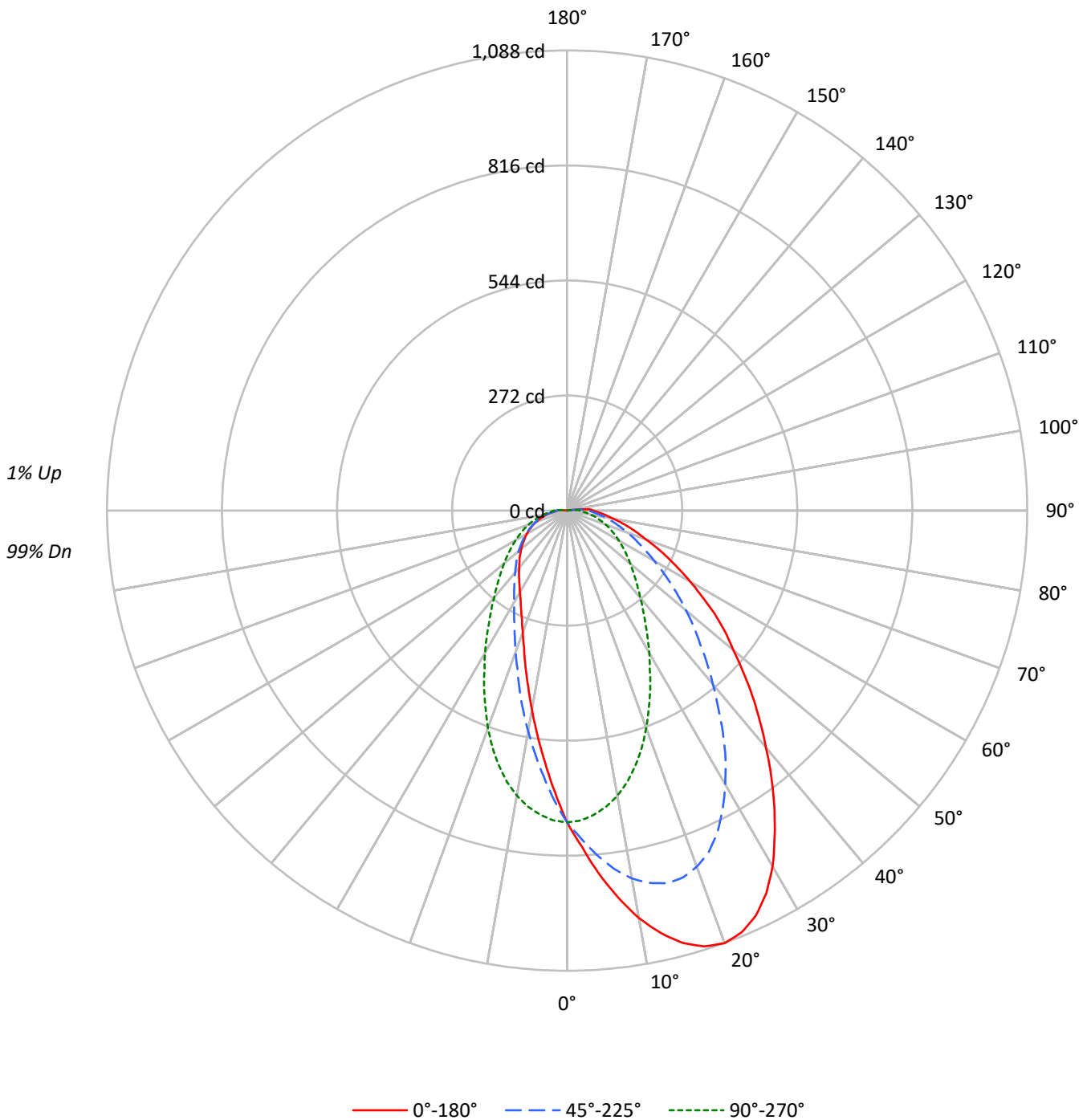
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	105	105	105	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	64	59	54	52
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	47	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	33	58	45	38	33	44	37	33	43	37	32	42	36	32	30
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43998	43998	43998
5°	50465	42290	35052
10°	56660	39626	27699
15°	61075	35986	21985
20°	63040	31688	17764
25°	61905	27232	15090
30°	58066	23186	13338
35°	52456	19758	12165
40°	46594	17139	11233
45°	41297	15193	10611
50°	36160	13725	10008
55°	32122	12523	9415
60°	27510	11511	8985
65°	23473	10608	8448
70°	19863	9815	7848
75°	17497	8882	7029
80°	15069	7843	6115
85°	13978	6803	5242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	4.5
10°-20°	188.6	12.3
20°-30°	258.8	16.9
30°-40°	267.3	17.4
40°-50°	238.5	15.6
50°-60°	195.1	12.7
60°-70°	145.1	9.5
70°-80°	96.8	6.3
80°-90°	54.9	3.6
90°-100°	19.1	1.2
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°	516.2	33.7
0°-40°	783.5	51.1
0°-60°	1217.1	79.4
0°-90°	1513.9	98.8
90°-120°	19.1	1.2
90°-150°	19.1	1.2
90°-180°	19.0	1.2
0°-180°	1533.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	737	737	737	737	737	
5°	862	818	722	632	599	86
15°	1059	912	624	436	381	299
25°	1056	840	465	295	258	483
35°	854	642	322	218	198	533
45°	619	444	228	169	159	478
55°	426	298	166	130	125	379
65°	261	190	118	96	94	261
75°	151	119	77	62	61	161
85°	82	66	40	31	31	73
90°	62	50	31	24	24	34
95°	37	29	16	11	13	18
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1
2.5°	795.4	782.8	777.1	757.7	733.6	715.3	686.7	677.6	666.1
5°	861.8	842.4	818.3	774.8	722.2	679.8	631.8	613.5	598.6
7.5°	922.5	898.4	855.0	784.0	706.2	640.9	580.3	551.7	535.6
10°	978.6	946.5	883.6	786.3	684.4	599.7	529.9	496.7	478.4
12.5°	1023.2	985.4	901.9	780.6	657.0	555.1	481.8	441.8	425.8
15°	1058.7	1014.0	912.2	766.8	623.8	513.9	436.1	396.0	381.1
17.5°	1080.4	1030.1	909.9	742.8	587.1	469.3	391.4	354.8	338.8
20°	1088.4	1032.4	896.2	713.0	547.1	430.3	355.9	322.8	306.7
22.5°	1079.3	1019.8	874.4	678.7	504.7	391.4	322.8	293.0	279.3
25°	1056.4	995.7	840.1	637.5	464.7	357.1	295.3	269.0	257.5
27.5°	1019.8	958.0	796.6	594.0	423.5	326.2	271.2	248.4	238.1
30°	971.7	909.9	747.4	547.1	388.0	298.7	249.5	231.2	223.2
32.5°	913.3	853.8	697.0	501.3	353.7	275.8	233.5	216.3	209.4
35°	853.8	795.4	642.1	455.5	321.6	254.1	217.5	203.7	198.0
37.5°	793.1	739.4	586.0	414.3	294.1	234.6	203.7	192.3	186.6
40°	731.3	681.0	536.8	375.4	269.0	217.5	191.1	182.0	176.3
42.5°	674.1	623.8	489.9	341.1	247.2	202.6	179.7	171.7	167.1
45°	619.2	572.3	444.1	310.2	227.8	188.8	169.4	162.5	159.1
47.5°	564.2	521.9	405.2	282.7	210.6	176.3	159.1	153.4	149.9
50°	512.7	475.0	366.2	256.4	194.6	164.8	149.9	144.2	141.9
52.5°	470.4	431.5	330.8	233.5	179.7	153.4	139.6	136.2	133.9
55°	425.8	386.8	297.6	212.9	166.0	143.1	130.5	127.0	124.8
57.5°	377.7	346.8	266.7	193.4	153.4	132.8	121.3	119.0	117.9
60°	336.5	309.0	238.1	177.4	140.8	122.5	113.3	111.0	109.9
62.5°	296.4	273.5	212.9	160.2	129.3	113.3	104.2	101.9	101.9
65°	260.9	240.3	190.0	145.4	117.9	104.2	96.1	95.0	93.9
67.5°	230.0	210.6	170.5	131.6	107.6	92.7	87.0	87.0	85.8
70°	196.9	185.4	151.1	119.0	97.3	84.7	79.0	77.8	77.8
72.5°	174.0	162.5	133.9	106.4	87.0	75.5	71.0	71.0	69.8
75°	151.1	141.9	119.0	95.0	76.7	67.5	61.8	61.8	60.7
77.5°	130.5	123.6	104.2	83.5	67.5	58.4	53.8	53.8	52.6
80°	109.9	107.6	90.4	72.1	57.2	49.2	46.9	45.8	44.6
82.5°	96.1	92.7	79.0	61.8	48.1	41.2	37.8	37.8	37.8
85°	82.4	79.0	66.4	52.6	40.1	34.3	30.9	30.9	30.9
87.5°	71.0	68.7	57.2	44.6	34.3	28.6	26.3	26.3	26.3
90°	61.8	59.5	50.4	38.9	30.9	25.2	24.0	24.0	24.0
92.5°	56.1	52.6	44.6	32.0	26.3	22.9	20.6	19.5	21.7
95°	36.6	32.0	28.6	18.3	16.0	12.6	11.4	10.3	12.6
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)