

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: P130132

Luminaire Tested: **HL618TAT - HLM6930 - HL6WFL - 73PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130132
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 - HLM6930 - 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1697.4 lumens
Efficiency: N/A
Efficacy: 61.5 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

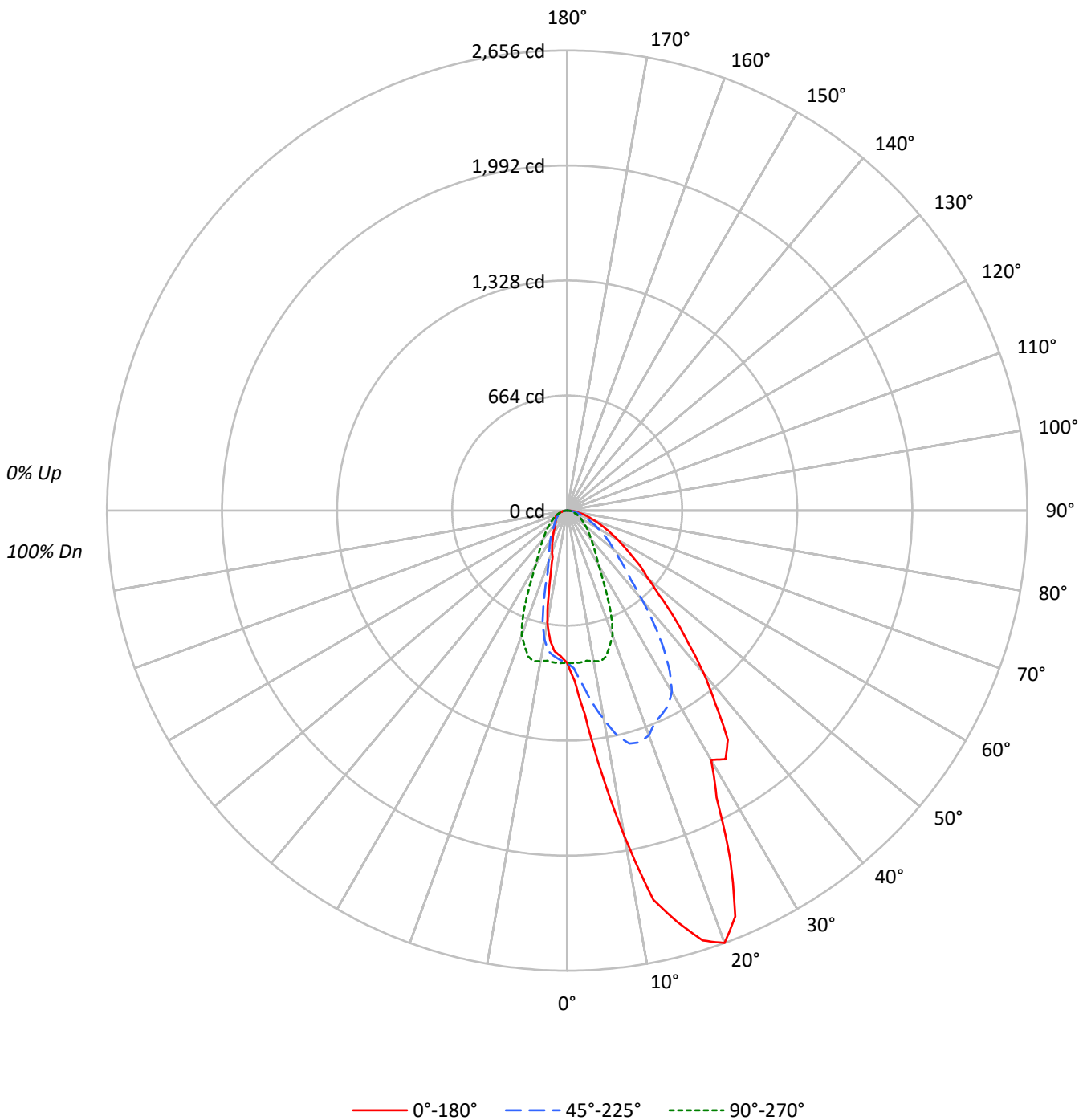
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52396	52396	52396
5°	69232	51542	47812
10°	110598	51032	37982
15°	141782	50236	20485
20°	153829	44419	14764
25°	130679	32289	11755
30°	99275	21572	9591
35°	99314	16963	7901
40°	78108	13756	6843
45°	58230	11725	6296
50°	42853	9733	5995
55°	34446	8366	5967
60°	27584	7431	5984
65°	21764	6262	6055
70°	16897	5236	5114
75°	13120	4504	4504
80°	8899	3565	3880
85°	6412	2205	2596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	5.4
10°-20°	293.5	17.3
20°-30°	377.4	22.2
30°-40°	345.0	20.3
40°-50°	239.9	14.1
50°-60°	163.8	9.6
60°-70°	107.5	6.3
70°-80°	58.2	3.4
80°-90°	19.9	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°	763.0	44.9
0°-40°	1108.0	65.3
0°-60°	1511.8	89.1
0°-90°	1697.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	878	878	878	878	878	
5°	1182	1008	880	845	816	137
15°	2458	1392	871	507	355	693
25°	2230	1296	551	242	201	1002
35°	1616	971	276	149	129	962
45°	873	471	176	99	94	679
55°	457	278	111	74	79	414
65°	242	150	70	57	67	243
75°	113	72	39	35	39	120
85°	38	22	13	13	15	39
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°	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8
2.5°	981.7	938.0	912.1	900.3	881.4	859.0	863.7	840.1	841.3
5°	1182.3	1100.8	1007.6	927.4	880.2	841.3	844.8	816.5	816.5
7.5°	1528.0	1355.7	1118.5	966.3	874.3	830.6	820.0	762.2	754.0
10°	1910.2	1645.9	1225.9	989.9	881.4	815.3	752.8	673.7	656.0
12.5°	2300.8	1949.2	1329.7	1007.6	890.8	766.9	654.8	531.0	492.0
15°	2457.7	2158.0	1392.3	1024.1	870.8	700.9	507.4	370.5	355.1
17.5°	2601.7	2238.3	1401.7	1044.2	816.5	589.9	371.7	306.8	278.5
20°	2655.9	2191.1	1379.3	1040.7	766.9	451.9	312.7	267.8	254.9
22.5°	2535.6	2036.5	1323.8	1004.1	670.2	357.5	271.4	234.8	226.5
25°	2230.0	1814.7	1295.5	951.0	551.0	306.8	241.9	207.7	200.6
27.5°	1867.8	1640.0	1264.8	862.5	441.3	271.4	215.9	187.6	178.2
30°	1661.3	1555.1	1208.2	746.9	361.0	239.5	191.1	165.2	160.5
32.5°	1701.4	1543.3	1103.2	627.7	313.9	212.4	171.1	146.3	143.9
35°	1616.5	1411.2	971.1	495.6	276.1	186.4	148.7	129.8	128.6
37.5°	1404.1	1218.8	820.0	408.2	244.2	165.2	132.1	116.8	109.7
40°	1225.9	1043.0	672.5	352.8	215.9	147.5	119.2	107.4	107.4
42.5°	1033.6	881.4	551.0	312.7	194.7	133.3	109.7	100.3	100.3
45°	873.1	725.6	470.8	278.5	175.8	120.3	99.1	92.0	94.4
47.5°	719.7	608.8	405.9	250.1	156.9	108.6	92.0	86.1	88.5
50°	607.6	521.5	356.3	220.6	138.0	97.9	85.0	82.6	85.0
52.5°	536.9	454.3	313.9	193.5	123.9	89.7	79.1	80.2	82.6
55°	456.6	394.1	278.5	169.9	110.9	82.6	74.3	75.5	79.1
57.5°	390.5	341.0	238.3	149.8	99.1	75.5	69.6	73.2	76.7
60°	337.4	296.2	206.5	132.1	90.9	68.4	64.9	70.8	73.2
62.5°	289.1	254.9	178.2	113.3	79.1	62.5	62.5	67.3	72.0
65°	241.9	213.6	149.8	96.8	69.6	56.6	56.6	63.7	67.3
67.5°	201.8	179.3	126.2	85.0	61.4	50.7	50.7	55.5	61.4
70°	167.5	147.5	105.0	70.8	51.9	44.8	44.8	47.2	50.7
72.5°	135.7	119.2	88.5	59.0	44.8	37.8	40.1	42.5	43.7
75°	113.3	97.9	72.0	48.4	38.9	33.0	35.4	36.6	38.9
77.5°	88.5	76.7	56.6	40.1	33.0	28.3	29.5	31.9	33.0
80°	64.9	56.6	42.5	30.7	26.0	23.6	24.8	28.3	28.3
82.5°	49.6	44.8	30.7	23.6	20.1	17.7	18.9	20.1	21.2
85°	37.8	29.5	22.4	15.3	13.0	11.8	13.0	14.2	15.3
87.5°	22.4	18.9	14.2	9.4	8.3	7.1	7.1	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)