

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: P130124

Luminaire Tested: **HL618TAT - HLM6930 - HL6WFL - 70PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33491)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL618TAT - HLM6930 - HL6WFL - 70PS
Description: HALO ALLSLOPE 6" 30W, Albalite 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: 1189.6 lumens
Efficiency: N/A
Efficacy: 43.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.05 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

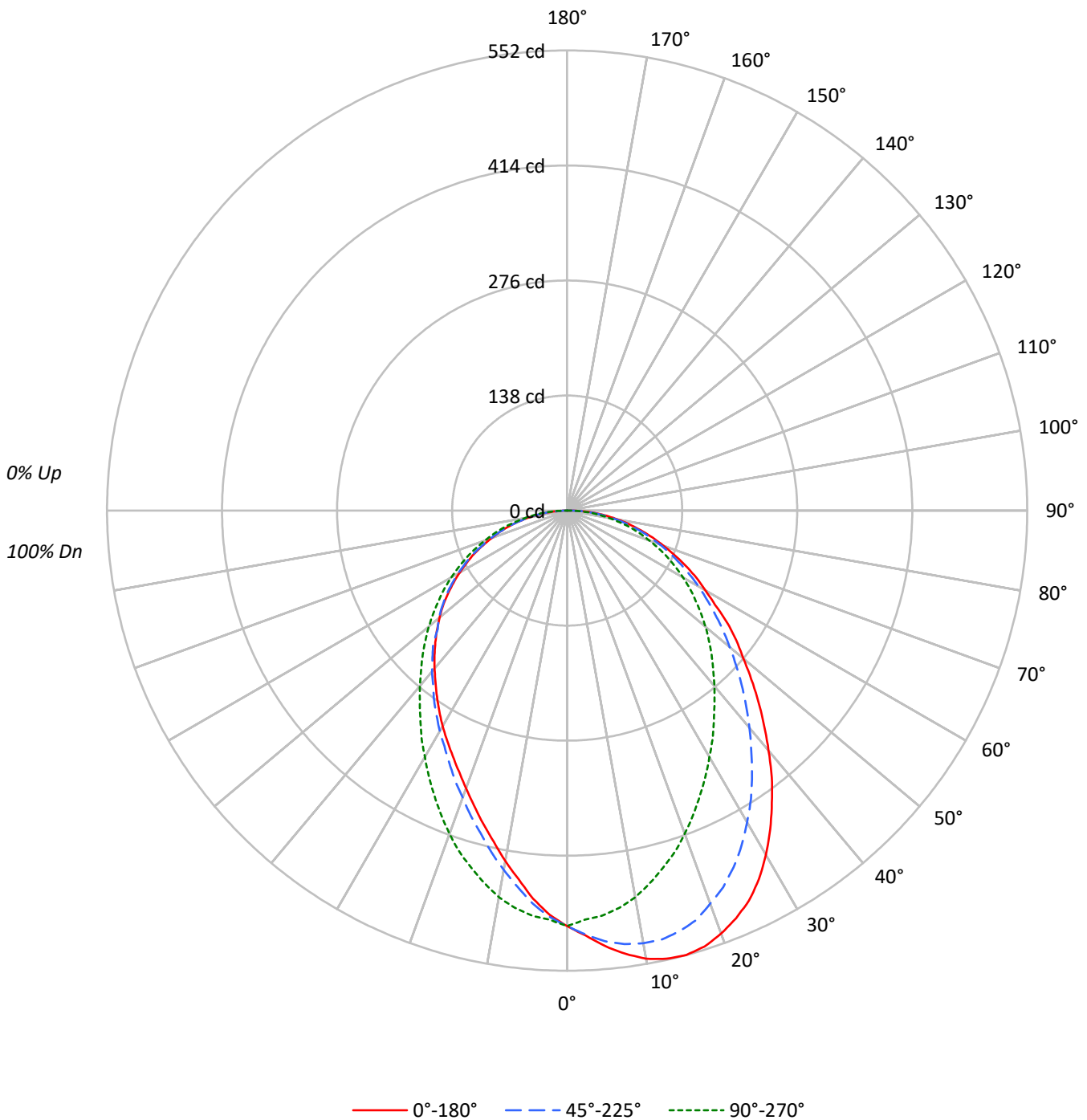
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29750	29750	29750
5°	30713	28558	27370
10°	31607	27270	24723
15°	31839	25597	22435
20°	31277	23904	20527
25°	30250	22092	19028
30°	28504	20401	17838
35°	26308	18855	16736
40°	23950	17509	15763
45°	21655	16340	14913
50°	19459	15269	14091
55°	17675	14175	13187
60°	15656	13130	12157
65°	14125	11984	11129
70°	12357	10562	9715
75°	10607	9090	8268
80°	8474	7007	6198
85°	5649	4445	3427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.9
10°-20°	129.0	10.8
20°-30°	184.1	15.5
30°-40°	206.4	17.3
40°-50°	200.7	16.9
50°-60°	175.4	14.7
60°-70°	134.9	11.3
70°-80°	84.1	7.1
80°-90°	28.4	2.4
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°	359.7	30.2
0°-40°	566.1	47.6
0°-60°	942.2	79.2
0°-90°	1189.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	498	498	498	498	498	
5°	524	519	488	473	467	51
15°	552	522	444	401	389	155
25°	516	472	377	334	325	237
35°	428	387	307	278	272	267
45°	325	296	245	227	224	251
55°	234	216	188	177	175	209
65°	157	149	133	125	124	155
75°	92	88	78	71	71	97
85°	33	30	26	21	20	36
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°	498.4	498.4	498.4	498.4	498.4	498.4	498.4	498.4	498.4
2.5°	510.3	506.7	509.1	503.1	491.2	485.3	487.7	487.7	485.3
5°	524.5	519.8	518.6	506.7	487.7	474.6	473.4	468.6	467.4
7.5°	536.4	530.5	524.5	505.5	480.5	461.5	455.5	448.4	446.0
10°	545.9	537.6	526.9	501.9	471.0	447.2	437.7	429.4	427.0
12.5°	550.7	541.2	526.9	494.8	457.9	431.8	419.9	409.2	406.8
15°	551.9	541.2	522.2	485.3	443.7	415.1	400.8	390.1	388.9
17.5°	548.3	536.4	515.0	472.2	429.4	398.5	384.2	374.7	371.1
20°	540.0	526.9	501.9	456.7	412.7	380.6	366.3	356.8	354.4
22.5°	529.3	516.2	488.9	441.3	394.9	362.8	350.9	342.6	339.0
25°	516.2	501.9	472.2	423.4	377.0	347.3	334.2	325.9	324.7
27.5°	498.4	482.9	453.2	403.2	359.2	330.7	318.8	312.8	311.6
30°	477.0	462.7	431.8	383.0	341.4	315.2	305.7	299.7	298.5
32.5°	453.2	440.1	410.3	364.0	324.7	300.9	291.4	286.6	285.5
35°	428.2	415.1	386.6	342.6	306.9	285.5	278.3	273.6	272.4
37.5°	403.2	390.1	362.8	322.3	290.2	271.2	264.1	260.5	259.3
40°	375.9	365.2	340.2	303.3	274.8	256.9	252.2	247.4	247.4
42.5°	349.7	340.2	317.6	284.3	259.3	245.0	239.1	235.5	235.5
45°	324.7	316.4	296.2	267.6	245.0	231.9	227.2	223.6	223.6
47.5°	299.7	292.6	274.8	248.6	230.7	217.7	210.5	210.5	211.7
50°	275.9	270.0	254.5	231.9	216.5	205.8	201.0	198.6	199.8
52.5°	255.7	248.6	235.5	216.5	202.2	192.7	189.1	186.7	187.9
55°	234.3	228.4	216.5	201.0	187.9	179.6	177.2	170.1	174.8
57.5°	210.5	208.1	198.6	185.5	174.8	166.5	164.1	161.8	161.8
60°	191.5	189.1	182.0	170.1	160.6	153.4	151.1	148.7	148.7
62.5°	174.8	171.3	165.3	154.6	146.3	140.4	138.0	135.6	135.6
65°	157.0	153.4	148.7	140.4	133.2	127.3	124.9	122.5	123.7
67.5°	139.2	136.8	133.2	124.9	118.9	114.2	110.6	109.4	109.4
70°	122.5	121.3	117.8	110.6	104.7	101.1	97.5	96.3	96.3
72.5°	107.0	105.9	102.3	96.3	91.6	88.0	84.4	83.3	84.4
75°	91.6	90.4	88.0	82.1	78.5	74.9	71.4	70.2	71.4
77.5°	76.1	76.1	72.6	69.0	64.2	61.8	58.3	57.1	58.3
80°	61.8	61.8	58.3	54.7	51.1	47.6	45.2	45.2	45.2
82.5°	47.6	45.2	44.0	40.4	38.1	35.7	33.3	32.1	32.1
85°	33.3	33.3	29.7	27.4	26.2	22.6	21.4	20.2	20.2
87.5°	20.2	20.2	17.8	15.5	14.3	10.7	8.3	9.5	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)