

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: P130123

Luminaire Tested: **HL618TAT - HLM6927 - HL6WFL - 70PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130123
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 - HLM6927 - 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1115.0 lumens
Efficiency: N/A
Efficacy: 40.4 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

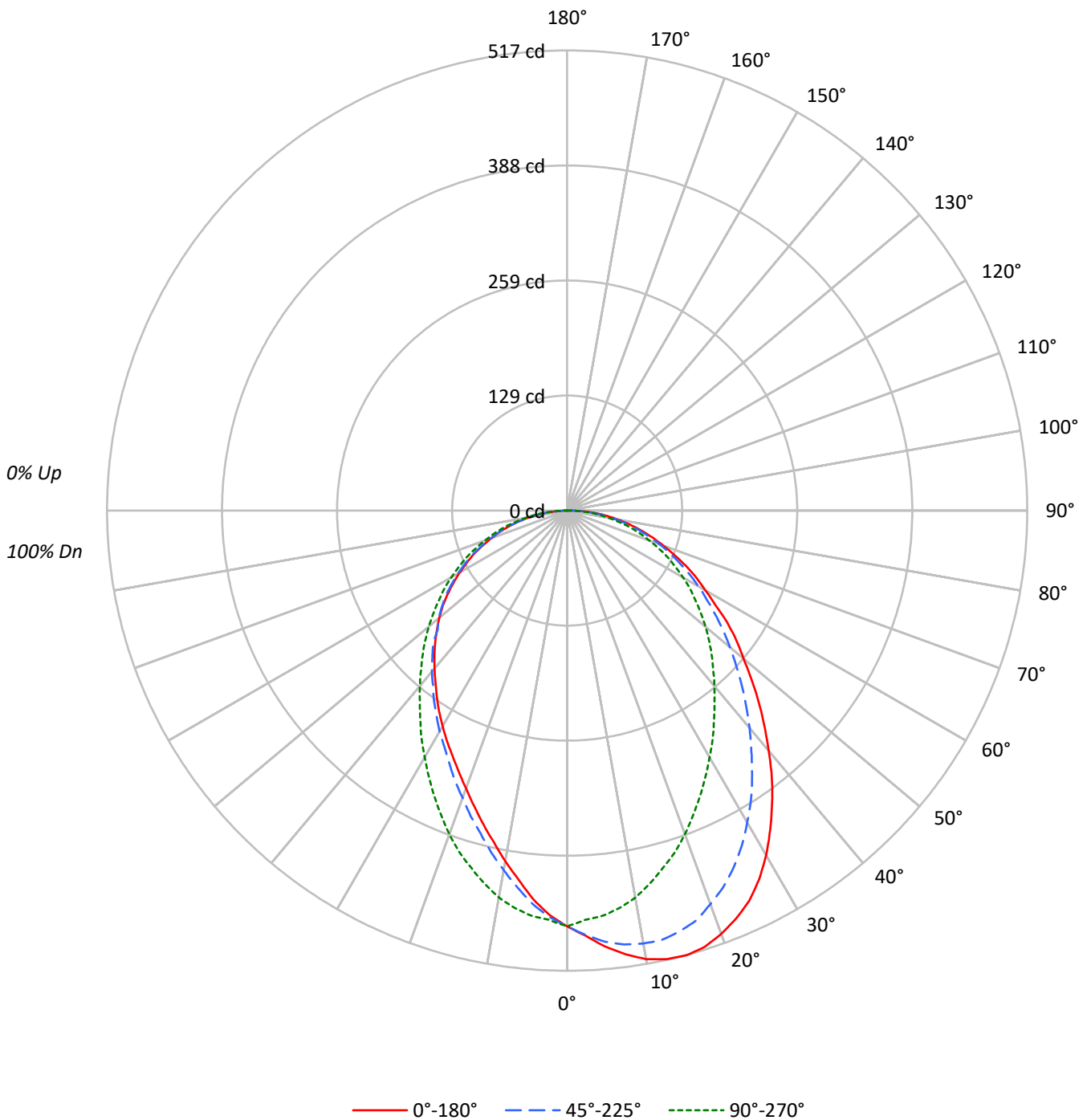
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27882	27882	27882
5°	28793	26767	25654
10°	29627	25562	23171
15°	29842	23987	21033
20°	29319	22409	19241
25°	28357	20709	17838
30°	26717	19122	16720
35°	24661	17670	15685
40°	22447	16406	14775
45°	20302	15320	13979
50°	18239	14310	13210
55°	16566	13285	12365
60°	14675	12304	11397
65°	13244	11237	10428
70°	11581	9896	9109
75°	9935	8523	7747
80°	7953	6568	5814
85°	5293	4156	3223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	3.9
10°-20°	120.9	10.8
20°-30°	172.5	15.5
30°-40°	193.4	17.3
40°-50°	188.1	16.9
50°-60°	164.4	14.7
60°-70°	126.5	11.3
70°-80°	78.8	7.1
80°-90°	26.6	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°	337.2	30.2
0°-40°	530.6	47.6
0°-60°	883.1	79.2
0°-90°	1115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	467	467	467	467	467	
5°	492	486	457	444	438	48
15°	517	489	416	376	365	146
25°	484	443	353	313	304	222
35°	401	362	288	261	255	251
45°	304	278	230	213	210	235
55°	220	203	176	166	164	196
65°	147	139	125	117	116	146
75°	86	82	74	67	67	91
85°	31	28	24	20	19	34
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°	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1	467.1
2.5°	478.3	474.9	477.2	471.6	460.4	454.9	457.1	457.1	454.9
5°	491.7	487.2	486.1	474.9	457.1	444.8	443.7	439.3	438.1
7.5°	502.8	497.2	491.7	473.8	450.4	432.6	427.0	420.3	418.1
10°	511.7	503.9	493.9	470.5	441.5	419.2	410.3	402.5	400.2
12.5°	516.2	507.3	493.9	463.8	429.2	404.7	393.5	383.5	381.3
15°	517.3	507.3	489.4	454.9	415.8	389.1	375.7	365.7	364.6
17.5°	514.0	502.8	482.7	442.6	402.5	373.5	360.1	351.2	347.8
20°	506.2	493.9	470.5	428.1	386.9	356.8	343.4	334.5	332.2
22.5°	496.1	483.9	458.2	413.6	370.1	340.0	328.9	321.1	317.7
25°	483.9	470.5	442.6	396.9	353.4	325.5	313.3	305.5	304.4
27.5°	467.1	452.6	424.8	377.9	336.7	309.9	298.8	293.2	292.1
30°	447.1	433.7	404.7	359.0	320.0	295.4	286.5	280.9	279.8
32.5°	424.8	412.5	384.6	341.1	304.4	282.1	273.1	268.7	267.6
35°	401.4	389.1	362.3	321.1	287.6	267.6	260.9	256.4	255.3
37.5°	377.9	365.7	340.0	302.1	272.0	254.2	247.5	244.2	243.0
40°	352.3	342.3	318.9	284.3	257.5	240.8	236.4	231.9	231.9
42.5°	327.8	318.9	297.7	266.5	243.0	229.7	224.1	220.7	220.7
45°	304.4	296.6	277.6	250.8	229.7	217.4	212.9	209.6	209.6
47.5°	280.9	274.3	257.5	233.0	216.3	204.0	197.3	197.3	198.4
50°	258.6	253.1	238.6	217.4	202.9	192.9	188.4	186.2	187.3
52.5°	239.7	233.0	220.7	202.9	189.5	180.6	177.3	175.0	176.1
55°	219.6	214.1	202.9	188.4	176.1	168.3	166.1	159.4	163.9
57.5°	197.3	195.1	186.2	173.9	163.9	156.1	153.9	151.6	151.6
60°	179.5	177.3	170.6	159.4	150.5	143.8	141.6	139.4	139.4
62.5°	163.9	160.5	155.0	144.9	137.1	131.6	129.3	127.1	127.1
65°	147.2	143.8	139.4	131.6	124.9	119.3	117.1	114.8	115.9
67.5°	130.4	128.2	124.9	117.1	111.5	107.0	103.7	102.6	102.6
70°	114.8	113.7	110.4	103.7	98.1	94.8	91.4	90.3	90.3
72.5°	100.3	99.2	95.9	90.3	85.8	82.5	79.2	78.0	79.2
75°	85.8	84.7	82.5	76.9	73.6	70.2	66.9	65.8	66.9
77.5°	71.4	71.4	68.0	64.7	60.2	58.0	54.6	53.5	54.6
80°	58.0	58.0	54.6	51.3	47.9	44.6	42.4	42.4	42.4
82.5°	44.6	42.4	41.3	37.9	35.7	33.4	31.2	30.1	30.1
85°	31.2	31.2	27.9	25.6	24.5	21.2	20.1	19.0	19.0
87.5°	19.0	19.0	16.7	14.5	13.4	10.0	7.8	8.9	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)