

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: P130125

Luminaire Tested: **HL618TAT - HLM6935 - HL6WFL - 70PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130125
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 - HLM6935 - 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 / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1241.5 lumens
Efficiency: N/A
Efficacy: 45.0 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

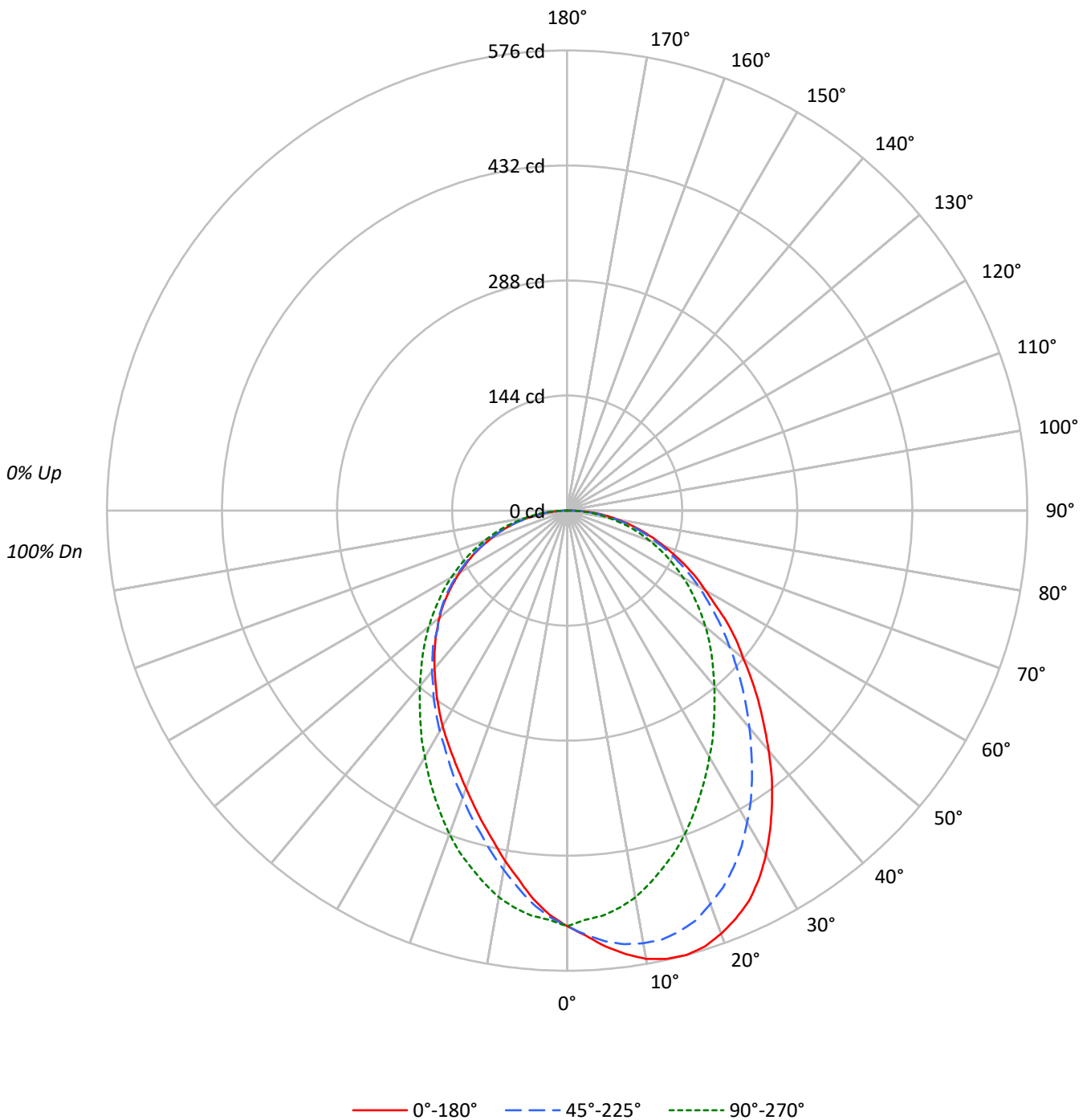
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	31045	31045	31045
5°	32054	29806	28570
10°	32991	28463	25805
15°	33229	26710	23416
20°	32644	24952	21425
25°	31574	23059	19860
30°	29747	21292	18620
35°	27457	19679	17467
40°	24995	18273	16451
45°	22602	17054	15566
50°	20312	15932	14712
55°	18452	14794	13768
60°	16343	13702	12688
65°	14746	12506	11615
70°	12902	11016	10148
75°	11070	9484	8627
80°	8858	7322	6472
85°	5904	4631	3579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.9
10°-20°	134.7	10.8
20°-30°	192.1	15.5
30°-40°	215.4	17.3
40°-50°	209.4	16.9
50°-60°	183.1	14.7
60°-70°	140.8	11.3
70°-80°	87.7	7.1
80°-90°	29.7	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°	375.4	30.2
0°-40°	590.8	47.6
0°-60°	983.3	79.2
0°-90°	1241.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	520	520	520	520	520	
5°	547	541	509	494	488	53
15°	576	545	463	418	406	162
25°	539	493	394	349	339	247
35°	447	403	320	290	284	279
45°	339	309	256	237	233	262
55°	245	226	196	185	182	218
65°	164	155	139	130	129	162
75°	96	92	82	74	74	101
85°	35	31	27	22	21	38
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°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	532.6	528.8	531.3	525.1	512.7	506.5	509.0	509.0	506.5
5°	547.4	542.5	541.2	528.8	509.0	495.3	494.1	489.1	487.9
7.5°	559.9	553.7	547.4	527.6	501.5	481.7	475.4	468.0	465.5
10°	569.8	561.1	549.9	523.9	491.6	466.8	456.8	448.1	445.7
12.5°	574.8	564.8	549.9	516.4	477.9	450.6	438.2	427.0	424.6
15°	576.0	564.8	545.0	506.5	463.0	433.2	418.3	407.2	405.9
17.5°	572.3	559.9	537.5	492.8	448.1	415.9	401.0	391.0	387.3
20°	563.6	549.9	523.9	476.7	430.8	397.2	382.3	372.4	369.9
22.5°	552.4	538.8	510.2	460.6	412.1	378.6	366.2	357.5	353.8
25°	538.8	523.9	492.8	441.9	393.5	362.5	348.8	340.1	338.9
27.5°	520.1	504.0	473.0	420.8	374.9	345.1	332.7	326.5	325.2
30°	497.8	482.9	450.6	399.7	356.3	329.0	319.0	312.8	311.6
32.5°	473.0	459.3	428.3	379.9	338.9	314.1	304.1	299.2	297.9
35°	446.9	433.2	403.4	357.5	320.3	297.9	290.5	285.5	284.3
37.5°	420.8	407.2	378.6	336.4	302.9	283.0	275.6	271.9	270.6
40°	392.3	381.1	355.0	316.6	286.8	268.1	263.2	258.2	258.2
42.5°	365.0	355.0	331.4	296.7	270.6	255.7	249.5	245.8	245.8
45°	338.9	330.2	309.1	279.3	255.7	242.1	237.1	233.4	233.4
47.5°	312.8	305.4	286.8	259.4	240.8	227.2	219.7	219.7	221.0
50°	288.0	281.8	265.7	242.1	225.9	214.8	209.8	207.3	208.6
52.5°	266.9	259.4	245.8	225.9	211.0	201.1	197.4	194.9	196.1
55°	244.6	238.3	225.9	209.8	196.1	187.4	185.0	177.5	182.5
57.5°	219.7	217.2	207.3	193.7	182.5	173.8	171.3	168.8	168.8
60°	199.9	197.4	189.9	177.5	167.6	160.1	157.7	155.2	155.2
62.5°	182.5	178.8	172.6	161.4	152.7	146.5	144.0	141.5	141.5
65°	163.9	160.1	155.2	146.5	139.0	132.8	130.3	127.9	129.1
67.5°	145.2	142.8	139.0	130.3	124.1	119.2	115.4	114.2	114.2
70°	127.9	126.6	122.9	115.4	109.2	105.5	101.8	100.6	100.6
72.5°	111.7	110.5	106.8	100.6	95.6	91.9	88.1	86.9	88.1
75°	95.6	94.3	91.9	85.7	81.9	78.2	74.5	73.2	74.5
77.5°	79.4	79.4	75.7	72.0	67.0	64.6	60.8	59.6	60.8
80°	64.6	64.6	60.8	57.1	53.4	49.7	47.2	47.2	47.2
82.5°	49.7	47.2	45.9	42.2	39.7	37.2	34.8	33.5	33.5
85°	34.8	34.8	31.0	28.6	27.3	23.6	22.3	21.1	21.1
87.5°	21.1	21.1	18.6	16.1	14.9	11.2	8.7	9.9	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)