

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: P130126

Luminaire Tested: **HL618TAT - HLM6940 - HL6WFL - 70PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130126
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 - HLM6940 - 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1315.5 lumens
Efficiency: N/A
Efficacy: 47.7 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

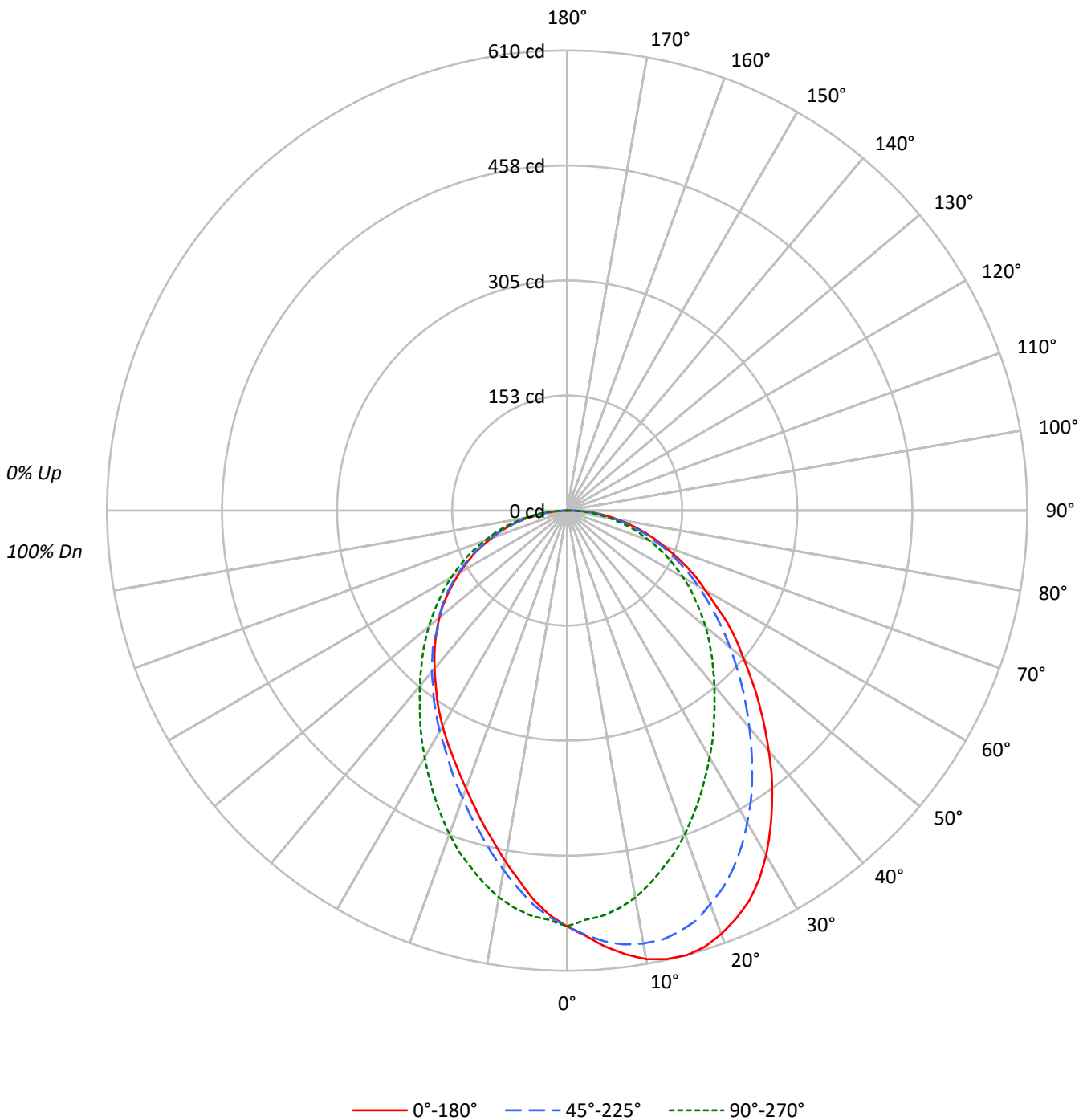
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32896	32896	32896
5°	33969	31580	30268
10°	34959	30159	27340
15°	35208	28302	24812
20°	34590	26435	22705
25°	33455	24436	21043
30°	31522	22558	19732
35°	29091	20852	18505
40°	26486	19356	17432
45°	23950	18074	16493
50°	21525	16884	15587
55°	19546	15676	14590
60°	17316	14520	13440
65°	15619	13253	12308
70°	13669	11682	10743
75°	11730	10051	9136
80°	9379	7761	6856
85°	6243	4903	3800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.9
10°-20°	142.7	10.8
20°-30°	203.6	15.5
30°-40°	228.2	17.3
40°-50°	221.9	16.9
50°-60°	194.0	14.7
60°-70°	149.2	11.3
70°-80°	93.0	7.1
80°-90°	31.4	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°	397.8	30.2
0°-40°	626.1	47.6
0°-60°	1041.9	79.2
0°-90°	1315.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1315.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	551	551	551	551	551	
5°	580	574	539	524	517	56
15°	610	577	491	443	430	172
25°	571	522	417	370	359	262
35°	474	428	339	308	301	296
45°	359	328	271	251	247	277
55°	259	239	208	196	193	231
65°	174	164	147	138	137	172
75°	101	97	87	79	79	107
85°	37	33	29	24	22	40
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°	551.1	551.1	551.1	551.1	551.1	551.1	551.1	551.1	551.1
2.5°	564.3	560.3	563.0	556.4	543.2	536.7	539.3	539.3	536.7
5°	580.1	574.8	573.5	560.3	539.3	524.8	523.5	518.3	516.9
7.5°	593.2	586.7	580.1	559.0	531.4	510.4	503.8	495.9	493.3
10°	603.8	594.5	582.7	555.1	520.9	494.6	484.1	474.8	472.2
12.5°	609.0	598.5	582.7	547.2	506.4	477.5	464.3	452.5	449.9
15°	610.3	598.5	577.4	536.7	490.6	459.1	443.3	431.4	430.1
17.5°	606.4	593.2	569.6	522.2	474.8	440.6	424.9	414.3	410.4
20°	597.2	582.7	555.1	505.1	456.4	420.9	405.1	394.6	392.0
22.5°	585.3	570.9	540.6	488.0	436.7	401.2	388.0	378.8	374.9
25°	570.9	555.1	522.2	468.3	417.0	384.1	369.6	360.4	359.1
27.5°	551.1	534.0	501.2	445.9	397.2	365.7	352.5	345.9	344.6
30°	527.5	511.7	477.5	423.5	377.5	348.6	338.0	331.5	330.2
32.5°	501.2	486.7	453.8	402.5	359.1	332.8	322.3	317.0	315.7
35°	473.5	459.1	427.5	378.8	339.4	315.7	307.8	302.5	301.2
37.5°	445.9	431.4	401.2	356.5	320.9	299.9	292.0	288.1	286.7
40°	415.7	403.8	376.2	335.4	303.8	284.1	278.9	273.6	273.6
42.5°	386.7	376.2	351.2	314.4	286.7	271.0	264.4	260.4	260.4
45°	359.1	349.9	327.5	296.0	271.0	256.5	251.2	247.3	247.3
47.5°	331.5	323.6	303.8	274.9	255.2	240.7	232.8	232.8	234.1
50°	305.2	298.6	281.5	256.5	239.4	227.6	222.3	219.7	221.0
52.5°	282.8	274.9	260.4	239.4	223.6	213.1	209.1	206.5	207.8
55°	259.1	252.5	239.4	222.3	207.8	198.6	196.0	188.1	193.4
57.5°	232.8	230.2	219.7	205.2	193.4	184.2	181.5	178.9	178.9
60°	211.8	209.1	201.3	188.1	177.6	169.7	167.1	164.4	164.4
62.5°	193.4	189.4	182.8	171.0	161.8	155.2	152.6	150.0	150.0
65°	173.6	169.7	164.4	155.2	147.3	140.7	138.1	135.5	136.8
67.5°	153.9	151.3	147.3	138.1	131.5	126.3	122.3	121.0	121.0
70°	135.5	134.2	130.2	122.3	115.8	111.8	107.9	106.5	106.5
72.5°	118.4	117.1	113.1	106.5	101.3	97.3	93.4	92.1	93.4
75°	101.3	100.0	97.3	90.8	86.8	82.9	78.9	77.6	78.9
77.5°	84.2	84.2	80.2	76.3	71.0	68.4	64.5	63.1	64.5
80°	68.4	68.4	64.5	60.5	56.6	52.6	50.0	50.0	50.0
82.5°	52.6	50.0	48.7	44.7	42.1	39.5	36.8	35.5	35.5
85°	36.8	36.8	32.9	30.3	28.9	25.0	23.7	22.4	22.4
87.5°	22.4	22.4	19.7	17.1	15.8	11.8	9.2	10.5	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)