

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: P130131

Luminaire Tested: **HL618TAT - HLM6927 - HL6WFL - 73PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130131
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 - HLM6927 - 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1591.0 lumens
Efficiency: N/A
Efficacy: 57.6 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

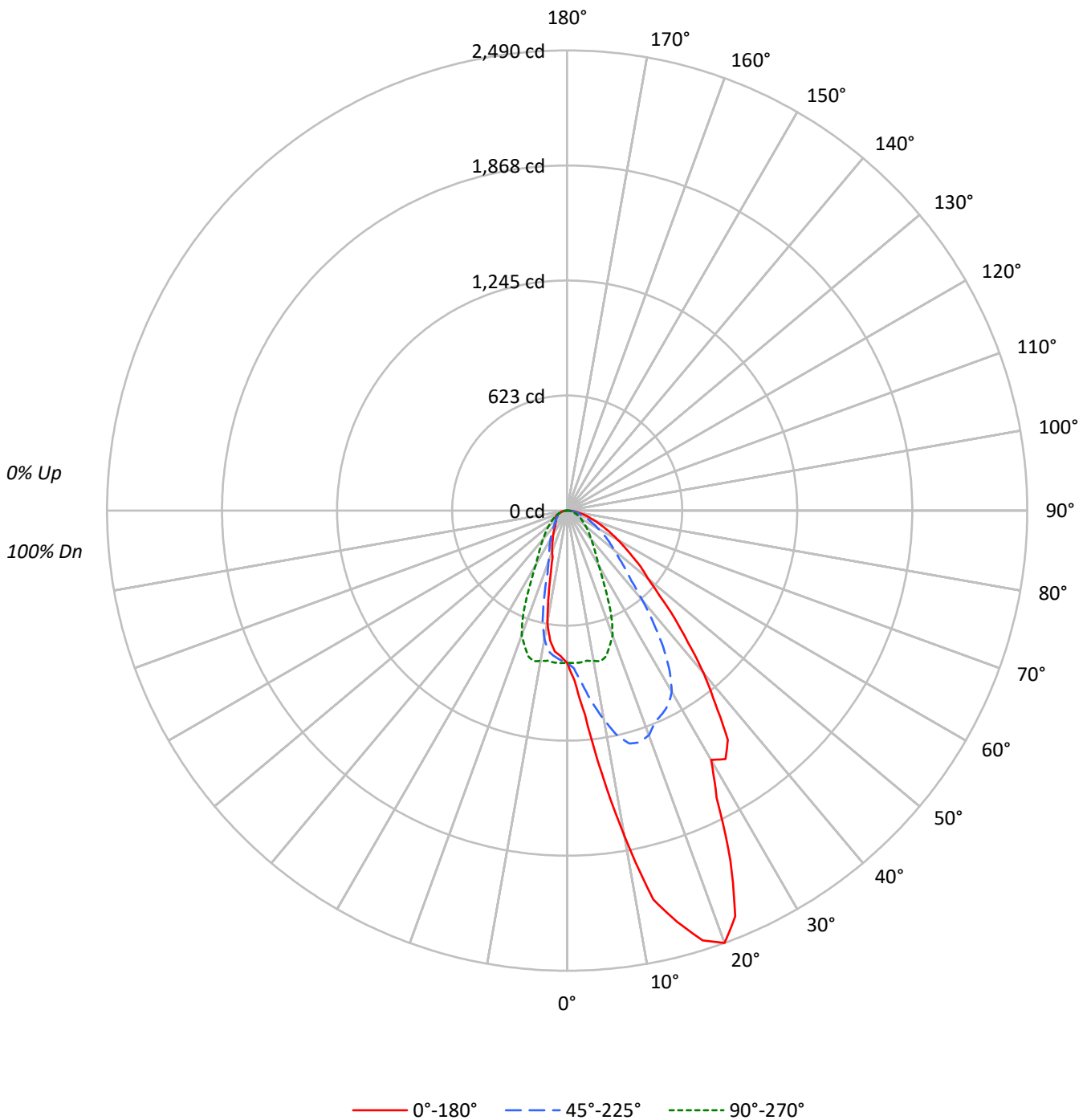
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49113	49113	49113
5°	64893	48310	44814
10°	103668	47830	35602
15°	132898	47086	19205
20°	144191	41639	13837
25°	122487	30267	11017
30°	93054	20222	8987
35°	93084	15900	7403
40°	73214	12896	6410
45°	54582	10991	5902
50°	40173	9126	5614
55°	32288	7846	5590
60°	25859	6965	5608
65°	20396	5875	5668
70°	15838	4913	4802
75°	12297	4227	4227
80°	8337	3332	3634
85°	6005	2070	2443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	5.4
10°-20°	275.1	17.3
20°-30°	353.7	22.2
30°-40°	323.4	20.3
40°-50°	224.9	14.1
50°-60°	153.5	9.7
60°-70°	100.7	6.3
70°-80°	54.6	3.4
80°-90°	18.6	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°	715.2	44.9
0°-40°	1038.6	65.3
0°-60°	1417.0	89.1
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	823	823	823	823	823	
5°	1108	944	825	792	765	128
15°	2304	1305	816	476	333	650
25°	2090	1214	516	227	188	939
35°	1515	910	259	139	120	902
45°	818	441	165	93	88	637
55°	428	261	104	70	74	388
65°	227	140	65	53	63	228
75°	106	68	36	33	36	112
85°	35	21	12	12	14	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°	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8	822.8
2.5°	920.1	879.2	854.9	843.8	826.1	805.1	809.5	787.4	788.5
5°	1108.2	1031.8	944.5	869.3	825.0	788.5	791.9	765.3	765.3
7.5°	1432.2	1270.7	1048.4	905.8	819.5	778.6	768.6	714.4	706.7
10°	1790.5	1542.8	1149.1	927.9	826.1	764.2	705.6	631.5	614.9
12.5°	2156.6	1827.0	1246.4	944.5	835.0	718.9	613.8	497.7	461.2
15°	2303.7	2022.8	1305.0	960.0	816.2	656.9	475.6	347.3	332.9
17.5°	2438.6	2098.0	1313.9	978.8	765.3	553.0	348.4	287.5	261.0
20°	2489.5	2053.7	1292.8	975.4	718.9	423.6	293.1	251.0	238.9
22.5°	2376.7	1908.8	1240.9	941.2	628.2	335.1	254.4	220.1	212.3
25°	2090.2	1700.9	1214.3	891.4	516.5	287.5	226.7	194.6	188.0
27.5°	1750.7	1537.3	1185.6	808.4	413.6	254.4	202.4	175.8	167.0
30°	1557.2	1457.6	1132.5	700.1	338.4	224.5	179.2	154.8	150.4
32.5°	1594.8	1446.6	1034.1	588.4	294.2	199.1	160.4	137.1	134.9
35°	1515.1	1322.7	910.2	464.5	258.8	174.7	139.3	121.7	120.5
37.5°	1316.1	1142.4	768.6	382.7	228.9	154.8	123.9	109.5	102.9
40°	1149.1	977.6	630.4	330.7	202.4	138.2	111.7	100.6	100.6
42.5°	968.8	826.1	516.5	293.1	182.5	125.0	102.9	94.0	94.0
45°	818.4	680.2	441.3	261.0	164.8	112.8	92.9	86.3	88.5
47.5°	674.6	570.7	380.4	234.5	147.1	101.7	86.3	80.7	82.9
50°	569.6	488.8	334.0	206.8	129.4	91.8	79.6	77.4	79.6
52.5°	503.2	425.8	294.2	181.4	116.1	84.1	74.1	75.2	77.4
55°	428.0	369.4	261.0	159.3	104.0	77.4	69.7	70.8	74.1
57.5°	366.1	319.6	223.4	140.5	92.9	70.8	65.3	68.6	71.9
60°	316.3	277.6	193.5	123.9	85.2	64.1	60.8	66.4	68.6
62.5°	271.0	238.9	167.0	106.2	74.1	58.6	58.6	63.0	67.5
65°	226.7	200.2	140.5	90.7	65.3	53.1	53.1	59.7	63.0
67.5°	189.1	168.1	118.3	79.6	57.5	47.6	47.6	52.0	57.5
70°	157.0	138.2	98.4	66.4	48.7	42.0	42.0	44.2	47.6
72.5°	127.2	111.7	82.9	55.3	42.0	35.4	37.6	39.8	40.9
75°	106.2	91.8	67.5	45.3	36.5	31.0	33.2	34.3	36.5
77.5°	82.9	71.9	53.1	37.6	31.0	26.5	27.6	29.9	31.0
80°	60.8	53.1	39.8	28.8	24.3	22.1	23.2	26.5	26.5
82.5°	46.4	42.0	28.8	22.1	18.8	16.6	17.7	18.8	19.9
85°	35.4	27.6	21.0	14.4	12.2	11.1	12.2	13.3	14.4
87.5°	21.0	17.7	13.3	8.8	7.7	6.6	6.6	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)