

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P31425

Luminaire Tested: **PD8H142E-82H1GC_26TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31425
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8H142E-82H1GC_26TTT
Description: HALO 8-INCH APERTURE LENSED DOWNLIGHT, HORIZONTAL LAMP.
PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM.
Light Source: (1) SYLVANIA GX24Q-3 SINGLE END FOUR PIN BASE TTT CFL LAMP
3500K
CF26DT/E/IN/835 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
SYLVANIA QTP2x26CF/UNV DM

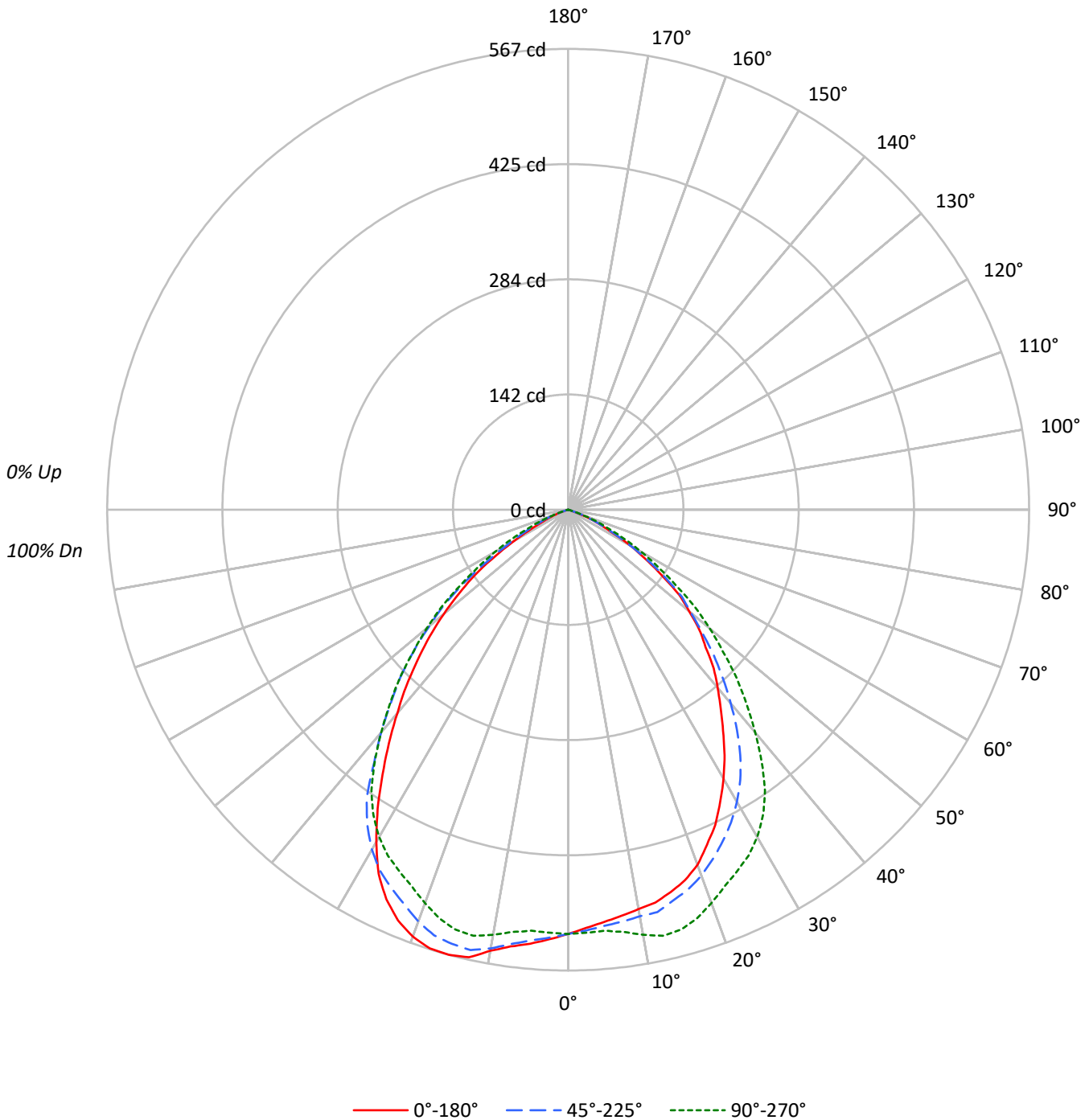
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1061.6 lumens
Efficiency: 59.0%
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 0.7' x H: 0.1')
CIE Type: Direct

Input Watts (W): 27.4
Input Voltage (V): 120.04
Input Current (A_{in}): 0.22883
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										
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	70	70	70	70	69	69	69	69	66	66	66	63	63	63	60	60	60	60	60	60	60	60	60	59														
1	66	64	62	60	64	62	61	59	60	59	57	58	57	56	56	55	54	56	55	54	56	55	54	53														
2	61	57	54	52	60	56	54	51	54	52	50	53	51	49	51	49	48	46	44	42	46	44	42	41														
3	57	52	48	45	55	51	47	44	49	46	44	48	45	43	46	44	42	46	44	42	46	44	42	41														
4	53	47	42	39	51	46	42	39	45	41	38	43	40	38	42	40	37	42	40	37	42	40	37	36														
5	49	42	38	35	48	42	38	34	41	37	34	40	36	34	39	36	33	39	36	33	39	36	33	32														
6	46	39	34	31	44	38	34	31	37	33	30	36	33	30	35	32	30	35	32	30	35	32	30	29														
7	42	35	31	28	42	35	31	28	34	30	27	33	30	27	33	29	27	33	29	27	33	29	27	26														
8	40	33	28	25	39	32	28	25	31	28	25	31	27	25	30	27	25	30	27	25	30	27	25	24														
9	37	30	26	23	36	30	26	23	29	25	23	28	25	22	28	25	22	28	25	22	28	25	22	21														
10	35	28	24	21	34	28	23	21	27	23	21	26	23	21	26	23	20	26	23	20	26	23	20	20														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14687	14687	14687
5°	14150	14456	14901
10°	13812	14698	15252
15°	13525	14858	15747
20°	13056	14460	15696
25°	12246	14048	15135
30°	11228	13668	13874
35°	10112	12853	12122
40°	9110	11404	10416
45°	8043	9860	8817
50°	6975	8162	7191
55°	5448	6265	5448
60°	3806	4447	3207
65°	2010	2584	1579
70°	658	986	712
75°	65	65	65
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	50.0	4.7	2.8	0°	522	522	522	522	522	
10°-20°	148.7	14.0	8.3	5°	509	514	520	532	536	48
20°-30°	222.1	20.9	12.3	15°	487	498	535	553	567	137
30°-40°	246.0	23.2	13.7	25°	428	450	491	514	529	196
40°-50°	209.4	19.7	11.6	35°	332	369	422	432	398	208
50°-60°	134.7	12.7	7.5	45°	239	253	293	292	262	185
60°-70°	47.2	4.4	2.6	55°	140	146	161	155	140	126
70°-80°	3.5	0.3	0.2	65°	42	44	54	44	33	45
80°-90°	0.0	0.0	0.0	75°	1	1	1	1	1	3
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	420.9	39.6	23.4							
0°-40°	666.8	62.8	37.0							
0°-60°	1010.9	95.2	56.2							
0°-90°	1061.6	100.0	59.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1061.6	100.0	59.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	522	522	522	522	522	522	522	522	522
2.5°	515	516	518	519	521	524	527	528	529
5°	509	512	514	516	520	526	532	536	536
7.5°	504	507	511	517	524	532	539	542	542
10°	499	502	508	519	531	541	548	550	551
12.5°	495	497	507	522	537	548	555	561	564
15°	487	490	498	516	535	545	553	562	567
17.5°	478	481	490	509	527	539	549	560	566
20°	465	467	479	498	515	528	539	552	559
22.5°	446	451	465	485	502	517	526	538	547
25°	428	432	450	472	491	506	514	522	529
27.5°	405	413	434	458	480	496	501	501	505
30°	382	391	415	441	465	479	483	473	472
32.5°	358	369	394	422	446	461	460	443	436
35°	332	341	369	396	422	437	432	410	398
37.5°	308	314	341	367	391	405	392	372	362
40°	286	290	311	334	358	368	358	340	327
42.5°	265	266	282	302	325	334	323	308	295
45°	239	241	253	271	293	299	292	273	262
47.5°	219	217	223	240	258	269	258	242	231
50°	194	195	197	211	227	236	223	212	200
52.5°	172	173	176	185	196	201	192	181	169
55°	140	144	146	154	161	165	155	145	140
57.5°	112	117	117	124	131	126	117	108	106
60°	89	87	88	97	104	97	86	78	75
62.5°	61	63	64	71	78	73	62	53	51
65°	42	43	44	50	54	52	44	36	33
67.5°	28	27	28	32	36	33	29	23	22
70°	12	13	15	17	18	19	17	14	13
72.5°	3	4	5	5	5	5	5	4	4
75°	1	1	1	1	1	1	1	1	1
77.5°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)