

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: P31414

Luminaire Tested: **PD6H142E-62HC\_26TTT**

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P31414  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6H142E-62HC\_26TTT  
Description: HALO 6-INCH APERTURE OPEN DOWNLIGHT, HORIZONTAL LAMP,  
SPECULAR CLEAR TRIM, SLOTS COVERED.  
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

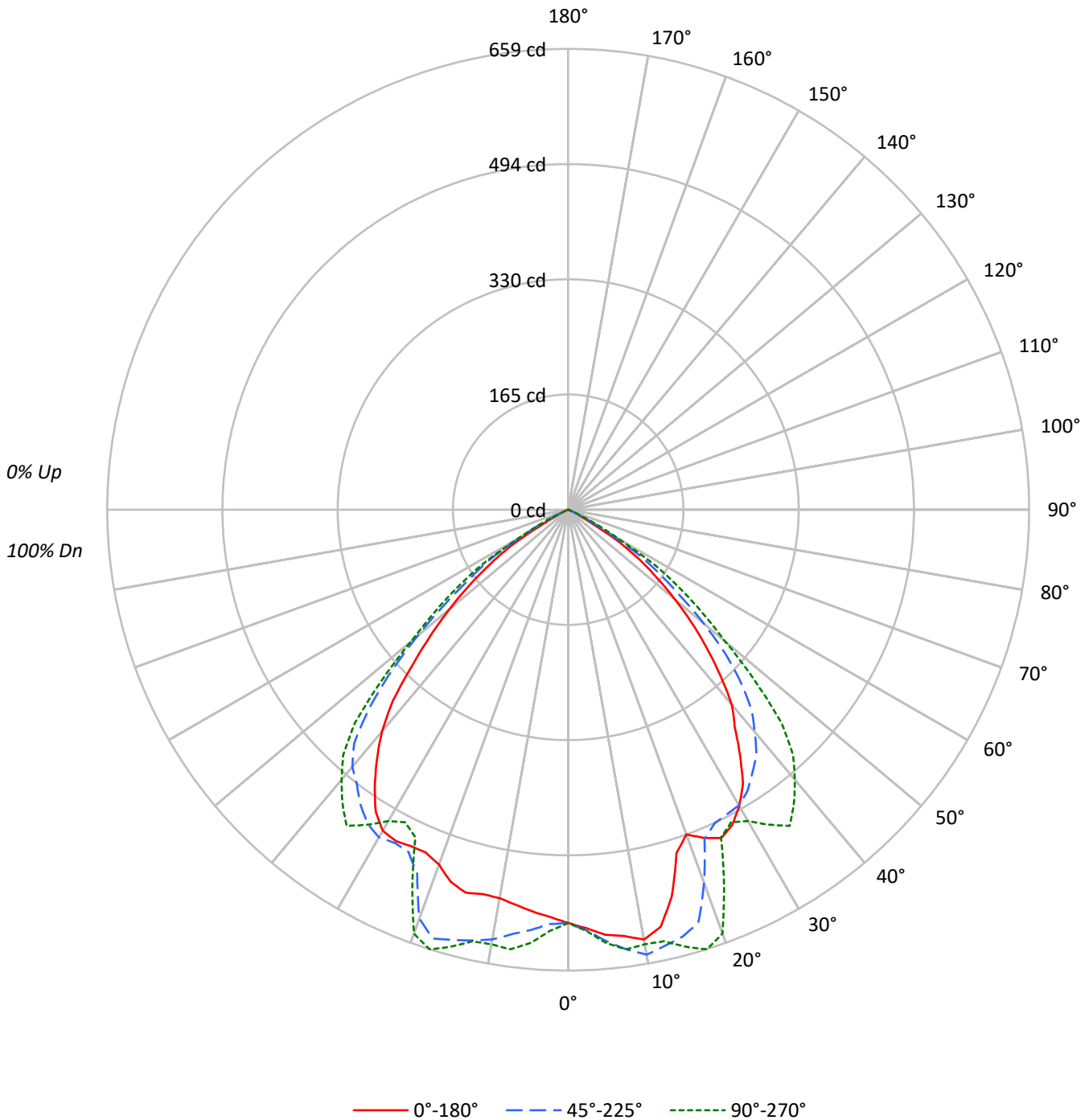
**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 1232.6 lumens  
Efficiency: 68.5%  
Efficacy: 44.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.43 / 1.37  
Luminous Opening: Vertical Cylinder (Dia: 0.54' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 27.7  
Input Voltage (V): 120.04  
Input Current (A<sub>in</sub>): 0.2313  
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

TEST NUMBER: P31414  
CATALOG NUMBER: PD6H142E-62HC\_26TTT

### Luminous Intensity Polar Plot





TEST NUMBER: P31414

CATALOG NUMBER: PD6H142E-62HC\_26TTT

**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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	68
1	77	74	72	70	75	73	71	69	70	68	67	67	66	65	65	64	63	62
2	71	67	64	61	70	66	63	60	64	61	59	62	59	57	60	58	56	55
3	66	61	56	53	65	60	56	52	58	54	51	56	53	51	54	52	50	49
4	62	55	50	46	60	54	50	46	52	49	45	51	48	45	50	47	44	43
5	57	50	45	41	56	49	44	41	48	44	40	47	43	40	45	42	40	38
6	53	45	40	36	52	45	40	36	44	39	36	43	39	36	42	38	35	34
7	50	42	36	33	49	41	36	33	40	36	32	39	35	32	38	35	32	31
8	46	38	33	29	45	38	33	29	37	32	29	36	32	29	35	32	29	28
9	43	35	30	27	43	35	30	27	34	30	27	33	29	26	33	29	26	25
10	41	33	28	24	40	32	28	24	32	27	24	31	27	24	30	27	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	27606	27606	27606
5°	28026	28577	26510
10°	28419	28738	25687
15°	26022	29434	25795
20°	22621	29535	24727
25°	24060	24014	24664
30°	23223	24411	25171
35°	20957	27028	23601
40°	18539	25669	21085
45°	15030	23053	16848
50°	11240	16633	12602
55°	7560	11767	8353
60°	2788	5444	3120
65°	882	1323	588
70°	166	166	166
75°	96	96	96
80°	0	0	115
85°	0	0	0



TEST NUMBER: P31414

CATALOG NUMBER: PD6H142E-62HC\_26TTT

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	58.6	4.8	3.3	0°	591	591	591	591	591	
10°-20°	174.3	14.1	9.7	5°	610	619	622	603	577	59
20°-30°	245.7	19.9	13.7	15°	572	632	647	637	567	158
30°-40°	305.8	24.8	17.0	25°	518	495	517	540	531	234
40°-50°	278.7	22.6	15.5	35°	428	459	552	517	482	267
50°-60°	146.2	11.9	8.1	45°	281	349	431	403	315	216
60°-70°	22.0	1.8	1.2	55°	124	158	193	171	137	109
70°-80°	1.2	0.1	0.1	65°	12	15	18	20	8	14
80°-90°	0.0	0.0	0.0	75°	1	1	1	1	1	1
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°	478.6	38.8	26.6							
0°-40°	784.4	63.6	43.6							
0°-60°	1209.3	98.1	67.2							
0°-90°	1232.6	100.0	68.5							
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°	1232.6	100.0	68.5							



TEST NUMBER: P31414

CATALOG NUMBER: PD6H142E-62HC\_26TTT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	591	591	591	591	591	591	591	591	591
2.5°	599	600	602	604	603	599	593	586	583
5°	610	614	619	624	622	615	603	587	577
7.5°	615	620	634	640	634	628	612	588	570
10°	624	624	646	641	631	632	624	587	564
12.5°	611	629	639	638	632	636	631	592	563
15°	572	605	632	647	647	647	637	600	567
17.5°	515	554	619	650	659	657	643	597	558
20°	494	514	568	619	645	646	622	574	540
22.5°	508	506	509	549	582	589	564	558	531
25°	518	505	495	503	517	533	540	554	531
27.5°	508	496	491	495	504	519	537	547	534
30°	489	475	488	502	514	528	541	532	530
32.5°	465	448	477	509	534	542	533	514	512
35°	428	421	459	516	552	548	517	493	482
37.5°	391	398	442	500	530	536	496	460	449
40°	364	371	415	473	504	513	480	426	414
42.5°	322	336	388	446	476	480	453	388	371
45°	281	297	349	394	431	433	403	343	315
47.5°	240	255	304	342	362	367	344	291	267
50°	198	205	253	282	293	300	282	244	222
52.5°	160	165	200	224	241	239	222	193	179
55°	124	132	158	183	193	187	171	154	137
57.5°	88	98	119	144	146	150	133	116	100
60°	42	46	66	80	82	84	77	66	47
62.5°	22	24	35	40	47	47	41	29	22
65°	12	12	15	18	18	20	20	15	8
67.5°	3	3	3	3	4	4	4	5	4
70°	2	2	2	2	2	2	2	2	2
72.5°	1	1	1	1	1	2	2	2	2
75°	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1
80°	0	0	0	0	0	0	1	1	1
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)