

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: P31426

Luminaire Tested: **PD8H142E-82HWWC_26TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31426
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8H142E-82HWWC_26TTT
Description: HALO 8-INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL
LAMP, SPECULAR CLEAR TRIM WITH SPECULAR KICKER.
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

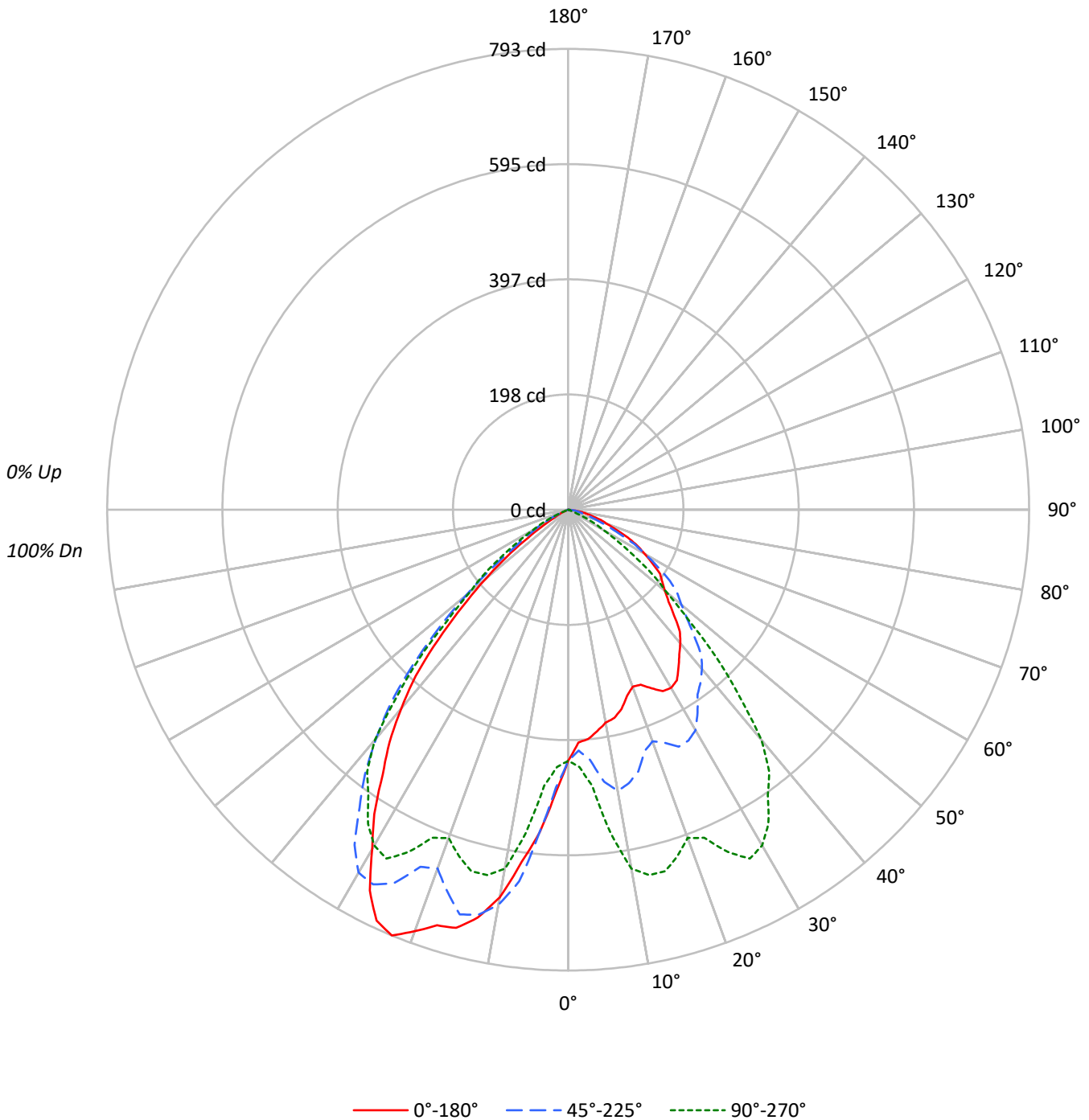
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1270.3 lumens
Efficiency: 70.6%
Efficacy: 45.9 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.72 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
CIE Type: Direct

Input Watts (W): 27.7
Input Voltage (V): 120.04
Input Current (A_{in}): 0.2311
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: P31426
CATALOG NUMBER: PD8H142E-82HWWC_26TTT

Luminous Intensity Polar Plot





TEST NUMBER: P31426

CATALOG NUMBER: PD8H142E-82HWWC_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	50	30	10	0	
RCR																						
0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	71				
1	79	76	74	72	77	75	73	71	72	70	68	69	68	66	67	65	64	63				
2	73	69	65	62	71	67	64	61	65	62	59	63	60	58	61	59	57	56				
3	68	62	57	53	66	61	56	53	59	55	52	57	54	51	55	53	50	49				
4	63	56	51	47	61	55	50	46	53	49	46	52	48	45	50	47	45	43				
5	58	51	45	41	57	50	45	41	48	44	41	47	43	40	46	42	40	38				
6	54	46	41	37	53	45	40	36	44	40	36	43	39	36	42	38	36	34				
7	51	42	37	33	49	42	36	33	41	36	32	40	35	32	39	35	32	31				
8	47	39	33	30	46	38	33	29	37	33	29	36	32	29	36	32	29	28				
9	44	36	30	27	43	35	30	27	34	30	27	34	30	26	33	29	26	25				
10	42	33	28	24	41	33	28	24	32	27	24	31	27	24	31	27	24	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11800	11800	11800
5°	10690	12877	15009
10°	10001	16857	18201
15°	9578	17375	20100
20°	8840	16397	21063
25°	9427	18075	21690
30°	10116	19060	19260
35°	9804	17741	16468
40°	9295	16019	13850
45°	8448	11886	10347
50°	7595	7735	6510
55°	7314	5192	3183
60°	6332	2916	1208
65°	5272	1400	420
70°	3742	214	107
75°	2716	126	63
80°	1869	0	0
85°	410	0	0



TEST NUMBER: P31426

CATALOG NUMBER: PD8H142E-82HWWC_26TTT

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	49.8	3.9	2.8	0°	432	432	432	432	432	
10°-20°	165.9	13.1	9.2	5°	396	432	477	555	556	37
20°-30°	272.8	21.5	15.2	15°	355	466	644	721	745	99
30°-40°	322.7	25.4	17.9	25°	339	450	650	709	780	157
40°-50°	254.2	20.0	14.1	35°	331	388	599	626	556	207
50°-60°	135.6	10.7	7.5	45°	258	306	363	377	316	199
60°-70°	52.3	4.1	2.9	55°	193	214	137	112	84	168
70°-80°	14.4	1.1	0.8	65°	113	96	30	23	9	110
80°-90°	2.6	0.2	0.1	75°	43	28	2	1	1	48
90°-100°	0.0	0.0	0.0	85°	4	4	0	0	0	8
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°	488.5	38.5	27.1							
0°-40°	811.2	63.9	45.1							
0°-60°	1201.0	94.5	66.7							
0°-90°	1270.3	100.0	70.6							
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°	1270.3	100.0	70.6							



TEST NUMBER: P31426

CATALOG NUMBER: PD8H142E-82HWWC_26TTT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	432	432	432	432	432	432	432	432	432
2.5°	401	407	415	426	443	462	478	486	486
5°	396	409	432	455	477	524	555	562	556
7.5°	384	417	472	519	562	605	645	627	611
10°	372	408	491	573	627	663	690	679	677
12.5°	367	398	482	572	644	682	714	736	719
15°	355	387	466	565	644	694	721	756	745
17.5°	336	374	436	542	625	673	690	751	750
20°	324	369	424	518	601	644	657	749	772
22.5°	326	374	434	533	611	649	665	761	793
25°	339	385	450	574	650	696	709	758	780
27.5°	352	392	448	589	677	729	727	735	739
30°	354	388	438	564	667	720	721	702	674
32.5°	348	373	414	522	641	680	684	651	621
35°	331	354	388	488	599	630	626	585	556
37.5°	314	334	374	465	568	591	574	531	505
40°	300	319	358	427	517	547	514	471	447
42.5°	284	299	339	371	436	468	452	406	388
45°	258	270	306	314	363	389	377	345	316
47.5°	234	245	277	263	280	309	301	270	246
50°	217	226	254	227	221	227	230	206	186
52.5°	204	214	237	203	183	172	166	144	133
55°	193	200	214	162	137	127	112	94	84
57.5°	172	180	182	128	101	95	82	62	49
60°	152	158	153	96	70	70	61	39	29
62.5°	134	136	128	74	50	48	40	26	18
65°	113	111	96	53	30	25	23	16	9
67.5°	88	83	70	30	7	3	4	4	3
70°	70	66	52	20	4	2	2	2	2
72.5°	59	54	39	12	3	1	1	1	1
75°	43	41	28	7	2	1	1	1	1
77.5°	33	32	20	4	1	0	0	0	0
80°	24	25	16	3	0	0	0	0	0
82.5°	14	16	12	2	0	0	0	0	0
85°	4	4	4	0	0	0	0	0	0
87.5°	1	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)