

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: P31415

Luminaire Tested: **PD6H142E-62HWWC_42TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31415
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62HWWC_42TTT
Description: HALO 6-INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL
LAMP, SPECULAR CLEAR TRIM WITH SPECULAR KICKER, SLOTS
COVERED.
Light Source: (1) SYLVANIA GX24Q-4 SINGLE END FOUR PIN BASE TTT CFL LAMP
3500K
CF42DT/E/IN/835 42 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
SYLVANIA QTP2x26CF/UNV DM

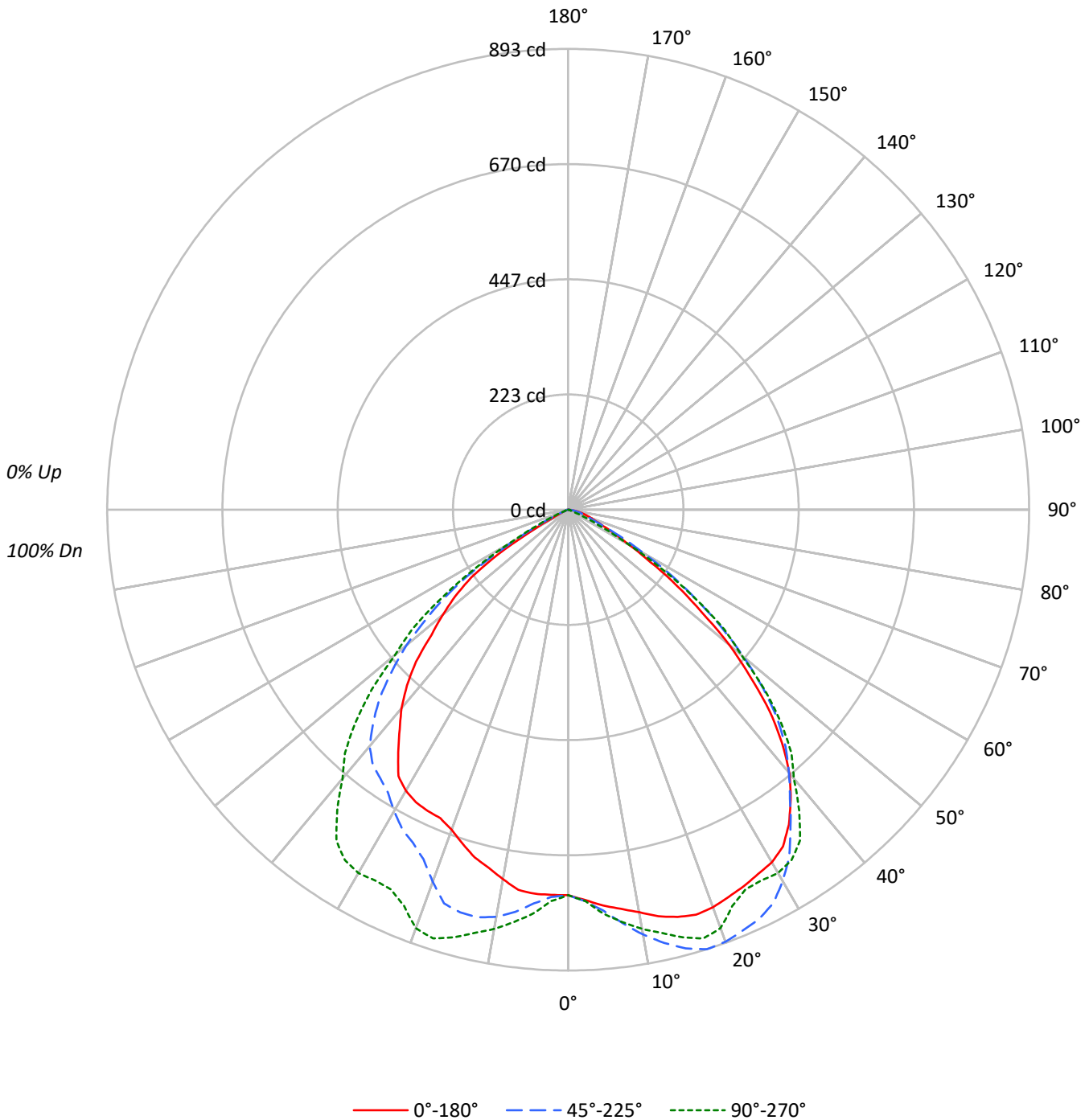
Summary

Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 1839.4 lumens
Efficiency: 57.5%
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.52 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 45.5
Input Voltage (V): 120.04
Input Current (A_{in}): 0.3790
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	68	68	68	68	67	67	67	67	64	64	64	61	61	61	59	59	59	57
1	64	62	60	59	63	61	59	58	58	57	56	56	55	54	54	53	53	51
2	60	56	53	50	58	55	52	49	53	50	48	51	49	47	49	48	46	45
3	55	50	46	43	54	49	46	43	48	45	42	46	44	41	45	43	41	40
4	51	45	41	38	50	44	41	37	43	40	37	42	39	36	41	38	36	35
5	47	41	36	33	46	40	36	33	39	35	33	38	35	32	37	34	32	31
6	44	37	33	29	43	37	32	29	36	32	29	35	31	29	34	31	29	27
7	41	34	29	26	40	33	29	26	33	29	26	32	28	26	31	28	26	25
8	38	31	27	24	37	31	26	23	30	26	23	29	26	23	29	25	23	22
9	36	29	24	21	35	28	24	21	28	24	21	27	24	21	26	23	21	20
10	33	26	22	19	33	26	22	19	26	22	19	25	22	19	25	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36275	36275	36275
5°	36763	37527	35665
10°	37470	39031	34395
15°	38595	40532	32973
20°	38975	41019	31370
25°	38796	39134	31037
30°	38864	40046	30983
35°	37818	39747	29138
40°	35202	35889	26494
45°	30580	32297	23101
50°	23975	25679	18628
55°	16273	19111	14444
60°	9334	9471	5285
65°	5692	2884	1214
70°	4024	599	428
75°	2971	396	297
80°	1897	237	356
85°	596	0	149



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	74.8	4.1	2.3	0°	747	747	747	747	747	
10°-20°	233.2	12.7	7.3	5°	770	780	786	766	747	74
20°-30°	363.2	19.7	11.3	15°	817	880	858	808	698	231
30°-40°	439.9	23.9	13.7	25°	805	875	812	712	644	372
40°-50°	407.8	22.2	12.7	35°	745	751	783	635	574	463
50°-60°	248.3	13.5	7.8	45°	552	573	583	516	417	419
60°-70°	56.4	3.1	1.8	55°	258	303	303	283	229	232
70°-80°	13.1	0.7	0.4	65°	75	75	38	31	16	80
80°-90°	2.6	0.1	0.1	75°	30	24	4	4	3	32
90°-100°	0.0	0.0	0.0	85°	4	5	0	0	1	6
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°	671.2	36.5	21.0							
0°-40°	1111.1	60.4	34.7							
0°-60°	1767.2	96.1	55.2							
0°-90°	1839.4	100.0	57.5							
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°	1839.4	100.0	57.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	747	747	747	747	747	747	747	747	747
2.5°	757	758	759	761	759	754	751	748	747
5°	770	776	780	787	786	778	766	754	747
7.5°	780	794	808	808	806	801	786	757	743
10°	792	814	836	834	825	821	801	753	727
12.5°	807	834	860	852	840	833	809	749	711
15°	817	853	880	873	858	843	808	741	698
17.5°	823	869	893	886	871	849	800	728	679
20°	820	872	891	882	863	831	767	708	660
22.5°	812	869	883	865	831	788	733	695	647
25°	805	860	875	855	812	763	712	676	644
27.5°	796	846	860	848	810	744	697	657	639
30°	789	828	831	841	813	738	674	633	629
32.5°	774	796	797	824	805	735	650	608	612
35°	745	754	751	784	783	720	635	580	574
37.5°	708	703	706	737	735	692	622	546	536
40°	667	645	665	698	680	652	598	515	502
42.5°	613	591	623	649	640	611	559	478	462
45°	552	536	573	590	583	562	516	436	417
47.5°	478	479	512	517	516	509	463	393	359
50°	408	418	443	443	437	444	409	347	317
52.5°	325	355	374	364	381	370	345	301	276
55°	258	289	303	298	303	305	283	249	229
57.5°	189	226	237	219	221	225	205	182	162
60°	136	164	167	149	138	135	120	91	77
62.5°	102	116	119	94	75	73	65	44	32
65°	75	77	75	52	38	33	31	23	16
67.5°	57	56	50	25	11	9	9	9	7
70°	47	46	41	20	7	6	6	6	5
72.5°	38	38	32	15	5	4	4	4	4
75°	30	30	24	10	4	4	4	4	3
77.5°	23	23	18	7	3	3	3	3	3
80°	16	17	13	5	2	2	3	3	3
82.5°	10	11	9	3	1	1	1	1	1
85°	4	4	5	2	0	0	0	1	1
87.5°	1	1	1	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)