

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: P31430

Luminaire Tested: **PD6H118E-62HWWC_18DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31430
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H118E-62HWWC_18DTT
Description: HALO 6-INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL
LAMP, SPECULAR CLEAR TRIM WITH SPECULAR KICKER, SLOTS
COVERED.
Light Source: (1) GE G24Q-2 SINGLE END FOUR PIN BASE DTT CFL LAMP 2700K
F18DBX/SPX827/4P 18 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
Sylvania QTP 1/2x18CF/UNV/DM

Summary

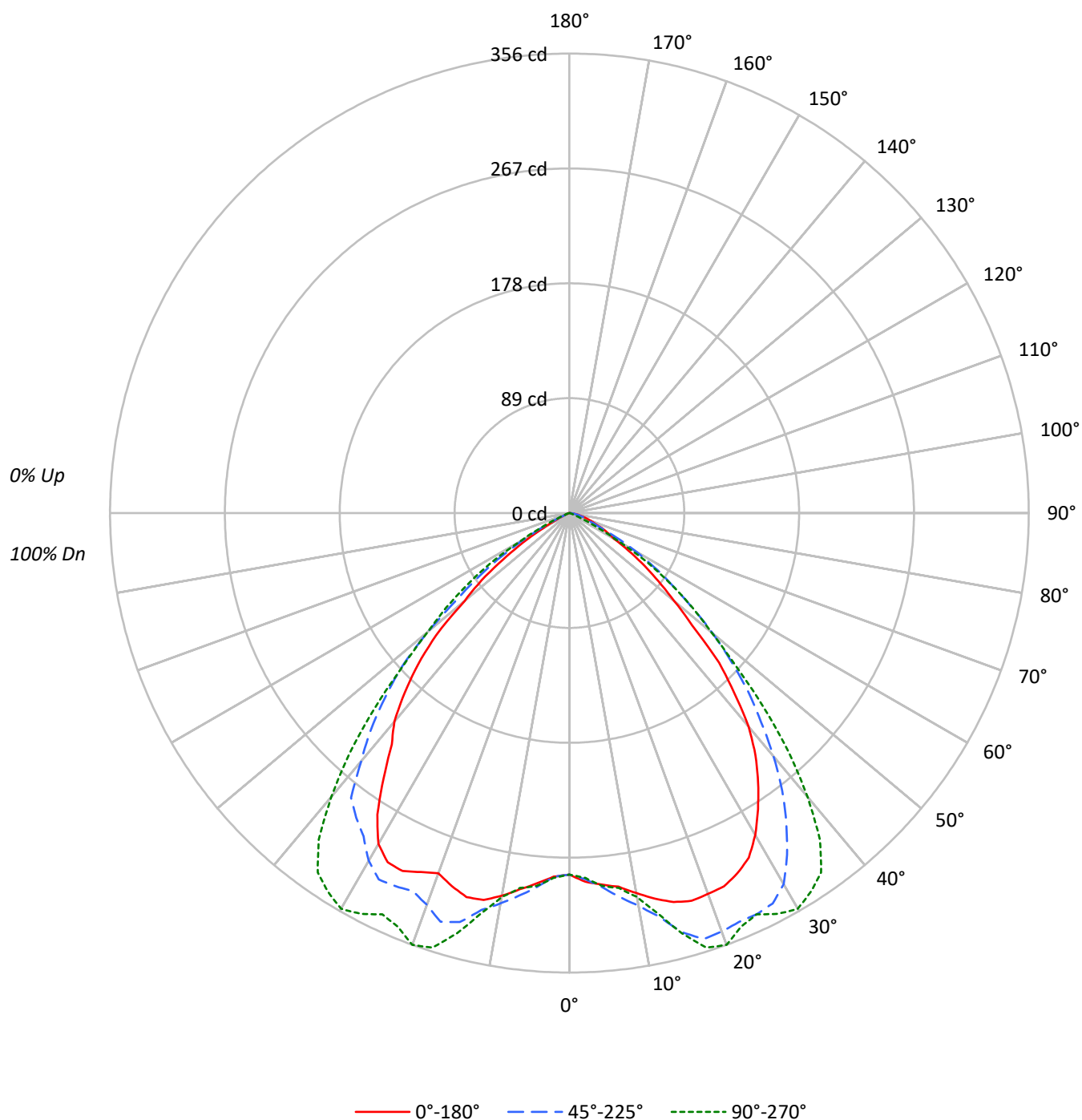
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 704.0 lumens
Efficiency: 58.7%
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.62 / 1.42
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 20.7
Input Voltage (V): 120.09
Input Current (Ain): 0.1727
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: P31430

CATALOG NUMBER: PD6H118E-62HWWC_18DTT

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60
1	66	63	62	60	64	62	61	59	60	58	57	58	56	55	55	55	54
2	61	57	54	52	60	56	53	51	54	52	50	52	50	49	51	49	48
3	57	52	48	45	55	51	47	44	49	46	44	48	45	43	46	44	42
4	53	47	42	39	51	46	42	39	45	41	38	43	40	38	42	40	38
5	49	42	38	35	48	42	38	34	41	37	34	40	36	34	39	36	33
6	45	39	34	31	44	38	34	31	37	33	30	36	33	30	35	32	30
7	42	35	31	28	41	35	31	27	34	30	27	33	30	27	32	29	27
8	39	32	28	25	39	32	28	25	31	27	25	31	27	25	30	27	24
9	37	30	25	23	36	30	25	22	29	25	22	28	25	22	28	25	22
10	35	28	23	21	34	27	23	20	27	23	20	26	23	20	26	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13597	13597	13597
5°	13798	13846	13751
10°	14146	14288	14240
15°	14739	15920	14550
20°	14925	16921	14117
25°	14844	16531	14747
30°	14186	17437	14580
35°	12944	17259	12741
40°	11400	15147	11136
45°	9085	11800	9196
50°	6229	8403	6229
55°	4478	6055	3974
60°	2745	3157	1579
65°	2125	911	455
70°	1541	257	171
75°	1089	99	99
80°	711	119	119
85°	149	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	28.1	4.0	2.3	0°	280	280	280	280	280	
10°-20°	92.4	13.1	7.7	5°	289	291	290	291	288	28
20°-30°	151.6	21.5	12.6	15°	312	336	337	328	308	88
30°-40°	181.2	25.7	15.1	25°	308	343	343	319	306	141
40°-50°	148.0	21.0	12.3	35°	255	293	340	288	251	159
50°-60°	78.2	11.1	6.5	45°	164	196	213	202	166	123
60°-70°	19.1	2.7	1.6	55°	71	97	96	85	63	63
70°-80°	4.6	0.7	0.4	65°	28	26	12	10	6	28
80°-90°	0.8	0.1	0.1	75°	11	9	1	1	1	12
90°-100°	0.0	0.0	0.0	85°	1	2	0	0	0	2
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°	272.1	38.7	22.7							
0°-40°	453.3	64.4	37.8							
0°-60°	679.5	96.5	56.6							
0°-90°	704.0	100.0	58.7							
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°	704.0	100.0	58.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	280	280	280	280	280	280	280	280	280
2.5°	286	285	284	285	283	283	282	282	282
5°	289	290	291	292	290	290	291	289	288
7.5°	292	296	300	297	293	295	299	296	294
10°	299	305	309	306	302	303	307	306	301
12.5°	306	315	320	319	318	314	315	314	307
15°	312	325	336	338	337	333	328	316	308
17.5°	315	331	346	352	353	347	332	311	303
20°	314	331	345	355	356	346	323	306	297
22.5°	313	327	343	351	347	339	317	302	301
25°	308	321	343	354	343	337	319	298	306
27.5°	301	314	341	359	350	339	320	292	305
30°	288	301	332	355	354	336	311	285	296
32.5°	272	285	314	343	348	328	297	276	277
35°	255	262	293	322	340	320	288	260	251
37.5°	237	242	271	305	319	307	278	242	226
40°	216	217	246	270	287	278	251	220	211
42.5°	189	194	220	239	252	247	228	202	189
45°	164	170	196	206	213	216	202	179	166
47.5°	129	149	170	175	174	179	176	156	140
50°	106	128	145	142	143	148	143	127	106
52.5°	87	107	119	120	120	119	109	95	86
55°	71	86	97	101	96	95	85	71	63
57.5°	54	64	78	78	73	73	62	50	43
60°	40	49	59	52	46	46	39	27	23
62.5°	34	36	41	32	27	26	22	14	12
65°	28	27	26	17	12	10	10	7	6
67.5°	21	20	18	10	4	2	3	2	2
70°	18	17	15	8	3	2	2	2	2
72.5°	14	14	12	5	2	1	1	1	1
75°	11	11	9	3	1	1	1	1	1
77.5°	8	8	6	2	1	1	1	1	1
80°	6	6	5	2	1	1	1	1	1
82.5°	3	4	3	1	0	0	0	0	0
85°	1	2	2	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)