

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: P31235

Luminaire Tested: **PD6H142E-62HWWC\_32TTT**

Issue Date: 03/03/2020



**Test Information**

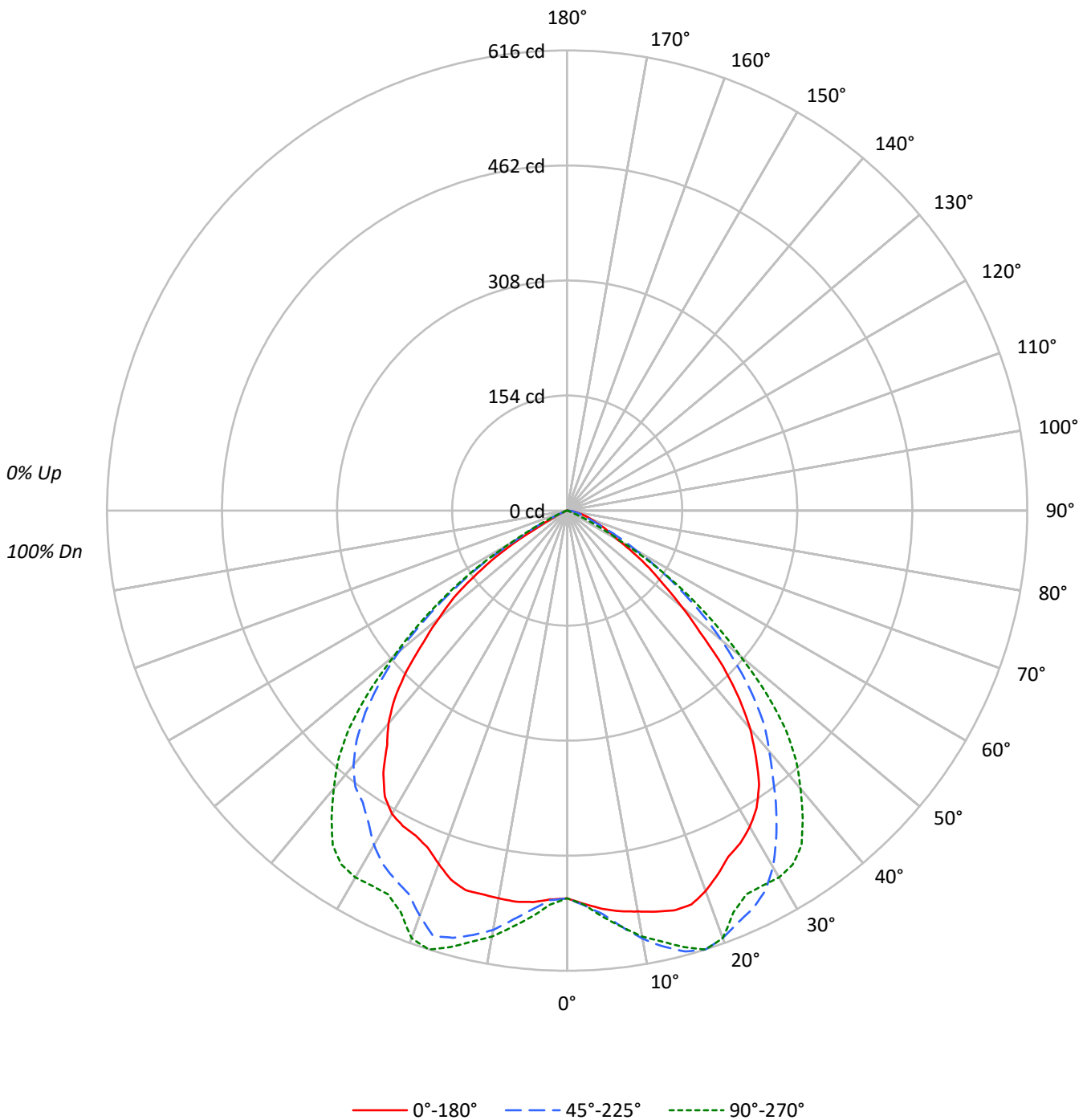
Test Method: LM-79-08  
Report Number: P31235  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6H142E-62HWWC\_32TTT  
Description: HALO 6-INCH APERTURE WALL WASH DOWNLIGHT, HORIZONTAL LAMP,  
SPECULAR CLEAR TRIM WITH SPECULAR KICKER.  
Light Source: (1) SYLVANIA FOUR PIN BASE CF32DT/E/IN/827 HEX CFL LAMP  
CF32DT/E/IN/827 32 WATTS  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QTP2x26CF/UNV DM

**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 1258.9 lumens  
Efficiency: 52.5%  
Efficacy: 37.4 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.53 / 1.42  
Luminous Opening: Vertical Cylinder (Dia: 0.52' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): 120.03  
Input Current (A<sub>in</sub>): 0.2810  
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	62	62	62	62	61	61	61	61	58	58	58	56	56	56	54	54	54	52
1	59	57	55	53	57	55	54	53	53	52	51	51	50	49	49	49	48	47
2	54	51	48	46	53	50	47	45	48	46	44	47	45	43	45	44	42	41
3	50	46	42	40	49	45	42	39	44	41	39	42	40	38	41	39	37	36
4	47	41	38	35	46	41	37	34	40	36	34	38	36	34	37	35	33	32
5	43	38	34	31	42	37	33	30	36	33	30	35	32	30	34	32	29	29
6	40	34	30	27	39	34	30	27	33	29	27	32	29	27	31	28	26	25
7	38	31	27	24	37	31	27	24	30	27	24	29	26	24	29	26	24	23
8	35	29	25	22	34	28	24	22	28	24	22	27	24	22	26	24	21	21
9	33	26	22	20	32	26	22	20	25	22	20	25	22	20	24	22	19	19
10	31	24	21	18	30	24	20	18	24	20	18	23	20	18	23	20	18	17

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

	0°	90°	180°
0°	26221	26221	26221
5°	26565	27111	26118
10°	26804	28476	25919
15°	27195	29699	25821
20°	26760	30067	24834
25°	25571	28373	24020
30°	24999	28987	23977
35°	23593	28806	22592
40°	20851	26597	20358
45°	16937	23712	17454
50°	12234	18382	13634
55°	8749	12927	9597
60°	5608	6318	3691
65°	4235	1882	784
70°	3093	353	265
75°	2246	204	204
80°	1463	244	244
85°	458	0	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	52.3	4.2	2.2	0°	519	519	519	519	519	
10°-20°	165.5	13.1	6.9	5°	535	542	546	536	526	51
20°-30°	255.7	20.3	10.7	15°	554	611	605	592	526	156
30°-40°	303.5	24.1	12.6	25°	511	588	567	545	480	237
40°-50°	273.5	21.7	11.4	35°	448	488	547	477	429	277
50°-60°	158.9	12.6	6.6	45°	295	353	413	382	304	224
60°-70°	38.2	3.0	1.6	55°	134	185	198	188	147	120
70°-80°	9.4	0.7	0.4	65°	54	54	24	21	10	54
80°-90°	1.9	0.1	0.1	75°	22	18	2	2	2	24
90°-100°	0.0	0.0	0.0	85°	3	4	0	0	0	4
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°	473.6	37.6	19.7							
0°-40°	777.0	61.7	32.4							
0°-60°	1209.4	96.1	50.4							
0°-90°	1258.9	100.0	52.5							
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°	1258.9	100.0	52.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	519	519	519	519	519	519	519	519	519
2.5°	527	527	529	529	528	526	522	521	521
5°	535	537	542	547	546	543	536	529	526
7.5°	541	548	562	565	562	561	552	537	528
10°	545	558	582	583	579	579	570	542	527
12.5°	550	571	598	597	591	591	582	548	526
15°	554	582	611	612	605	604	592	554	526
17.5°	553	589	616	620	616	614	597	552	518
20°	542	585	609	612	609	607	577	539	503
22.5°	527	576	597	591	582	579	555	527	488
25°	511	564	588	584	567	561	545	517	480
27.5°	502	548	574	576	566	552	534	503	476
30°	489	529	551	567	567	542	517	484	469
32.5°	472	503	521	552	562	536	495	463	454
35°	448	466	488	526	547	526	477	438	429
37.5°	415	423	453	497	518	506	466	413	396
40°	381	379	421	469	486	481	445	386	372
42.5°	341	338	391	433	454	450	417	356	342
45°	295	298	353	390	413	410	382	325	304
47.5°	241	264	311	342	361	364	340	289	261
50°	201	227	269	291	302	308	294	248	224
52.5°	163	193	228	239	250	251	241	208	191
55°	134	160	185	194	198	200	188	164	147
57.5°	104	127	146	148	146	152	140	121	106
60°	79	98	107	98	89	90	81	62	52
62.5°	65	78	79	62	51	52	45	31	21
65°	54	56	54	35	24	23	21	15	10
67.5°	42	42	37	18	6	6	6	5	5
70°	35	35	30	14	4	4	3	3	3
72.5°	28	28	24	11	3	3	3	3	3
75°	22	22	18	7	2	2	2	2	2
77.5°	17	17	13	5	2	2	2	2	2
80°	12	12	10	3	2	2	2	2	2
82.5°	7	8	7	2	1	1	1	1	1
85°	3	3	4	1	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)