

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: P31192

Luminaire Tested: **PD6V142E-60VC\_32TTT**

Issue Date: 03/03/2020



**Test Information**

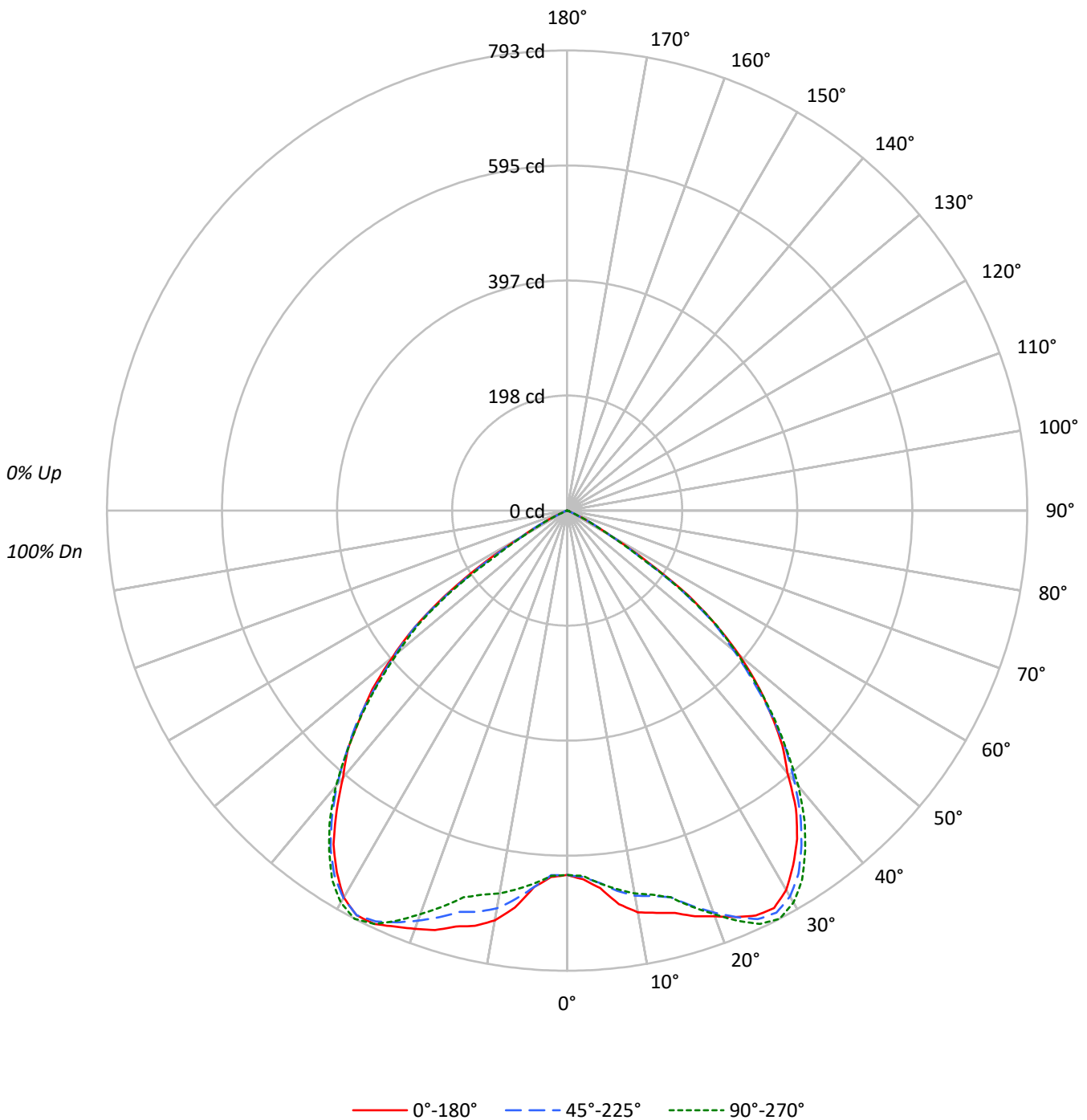
Test Method: LM-79-08  
Report Number: P31192  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6V142E-60VC\_32TTT  
Description: HALO 6 INCH RECESSED CFL OPEN DOWNLIGHT  
VERTICAL LAMP, SPECULAR CLEAR REFLECTOR  
Light Source: (1) FOUR PIN GX24Q\_4 BASE HEX TTT CFL LAMP 2700K  
SYLVANIA CF32DT/E/IN/827 32 W  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QTP2X26CF/UNV-BS

**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 1692.3 lumens  
Efficiency: 70.5%  
Efficacy: 51.9 lumens/watt  
Spacing Criteria (0/90/45): 1.56 / 1.59 / 1.47  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 32.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	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					71			
1	79	76	74	72	77	75	73	71	72	70	69	69	68	67	67	66	65	63					63			
2	73	69	65	62	72	68	64	61	65	62	60	63	61	59	61	59	57	56					56			
3	68	62	57	54	66	61	57	53	59	55	52	57	54	52	56	53	51	49					49			
4	63	56	51	47	62	55	50	47	54	49	46	52	48	46	51	47	45	44					44			
5	58	51	45	41	57	50	45	41	49	44	41	47	43	40	46	43	40	39					39			
6	54	46	41	37	53	45	40	36	44	40	36	43	39	36	42	38	36	34					34			
7	50	42	37	33	49	41	36	33	40	36	32	39	35	32	39	35	32	31					31			
8	47	38	33	29	46	38	33	29	37	32	29	36	32	29	36	32	29	28					28			
9	44	35	30	26	43	35	30	26	34	30	26	33	29	26	33	29	26	25					25			
10	41	33	27	24	40	32	27	24	32	27	24	31	27	24	30	27	24	23					23			

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

	0°	90°	180°
0°	30496	30496	30496
5°	31177	30795	31082
10°	33259	31698	33921
15°	33918	32595	35052
20°	35363	35173	36456
25°	37110	37881	37881
30°	37189	38420	37928
35°	35077	36295	35635
40°	31191	32722	31719
45°	27533	27865	27920
50°	22741	22389	23094
55°	16084	15642	16399
60°	5834	5765	6314
65°	1214	1442	1746
70°	342	342	342
75°	198	198	198
80°	119	119	119
85°	0	0	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	63.3	3.7	2.6	0°	628	628	628	628	628	
10°-20°	202.9	12.0	8.5	5°	653	644	645	651	651	64
20°-30°	357.6	21.1	14.9	15°	718	690	690	716	742	205
30°-40°	437.3	25.8	18.2	25°	770	777	786	781	786	353
40°-50°	384.3	22.7	16.0	35°	691	704	715	711	702	428
50°-60°	215.2	12.7	9.0	45°	497	498	503	510	504	381
60°-70°	29.0	1.7	1.2	55°	255	244	248	254	260	216
70°-80°	2.3	0.1	0.1	65°	16	15	19	18	23	28
80°-90°	0.4	0.0	0.0	75°	2	2	2	2	2	2
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°	623.8	36.9	26.0							
0°-40°	1061.0	62.7	44.2							
0°-60°	1660.6	98.1	69.2							
0°-90°	1692.3	100.0	70.5							
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°	1692.3	100.0	70.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	628	628	628	628	628	628	628	628	628
2.5°	636	634	632	632	630	631	629	633	632
5°	653	649	644	646	645	647	651	653	651
7.5°	684	669	661	668	658	667	675	680	690
10°	703	684	674	685	670	684	696	703	717
12.5°	710	690	680	693	678	693	708	719	733
15°	718	704	690	704	690	699	716	728	742
17.5°	733	729	714	722	716	718	735	746	758
20°	744	752	737	737	740	735	752	766	767
22.5°	758	774	758	753	765	751	768	786	776
25°	770	789	777	766	786	764	781	799	786
27.5°	772	795	781	767	793	769	786	801	786
30°	755	781	768	748	780	756	771	784	770
32.5°	725	753	742	720	754	730	746	758	739
35°	691	713	704	683	715	699	711	722	702
37.5°	648	665	660	642	672	650	666	677	653
40°	591	615	609	593	620	604	617	623	601
42.5°	549	559	558	544	560	551	562	571	560
45°	497	502	498	492	503	494	510	515	504
47.5°	445	438	434	437	442	437	445	456	455
50°	387	377	375	378	381	379	388	389	393
52.5°	323	318	319	327	324	324	332	328	333
55°	255	245	244	252	248	252	254	265	260
57.5°	161	148	150	165	149	157	165	169	178
60°	85	86	85	86	84	90	91	92	92
62.5°	48	48	48	47	47	50	55	52	52
65°	16	16	15	17	19	17	18	21	23
67.5°	6	6	6	5	5	5	6	6	6
70°	4	4	4	4	4	4	4	4	4
72.5°	3	3	3	3	3	3	3	3	3
75°	2	2	2	2	2	2	2	2	2
77.5°	1	1	1	1	1	1	2	2	2
80°	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1
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)