

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: P31236

Luminaire Tested: **PD6H142E-62HWWC_26TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31236
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62HWWC_26TTT
Description: HALO 6-INCH APERTURE WALL WASH DOWNLIGHT, HORIZONTAL LAMP,
SPECULAR CLEAR TRIM WITH SPECULAR KICKER.
Light Source: (1) SYLVANIA FOUR PIN BASE HEX TTT CFL LAMP
CF26DT/E/IN/835 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

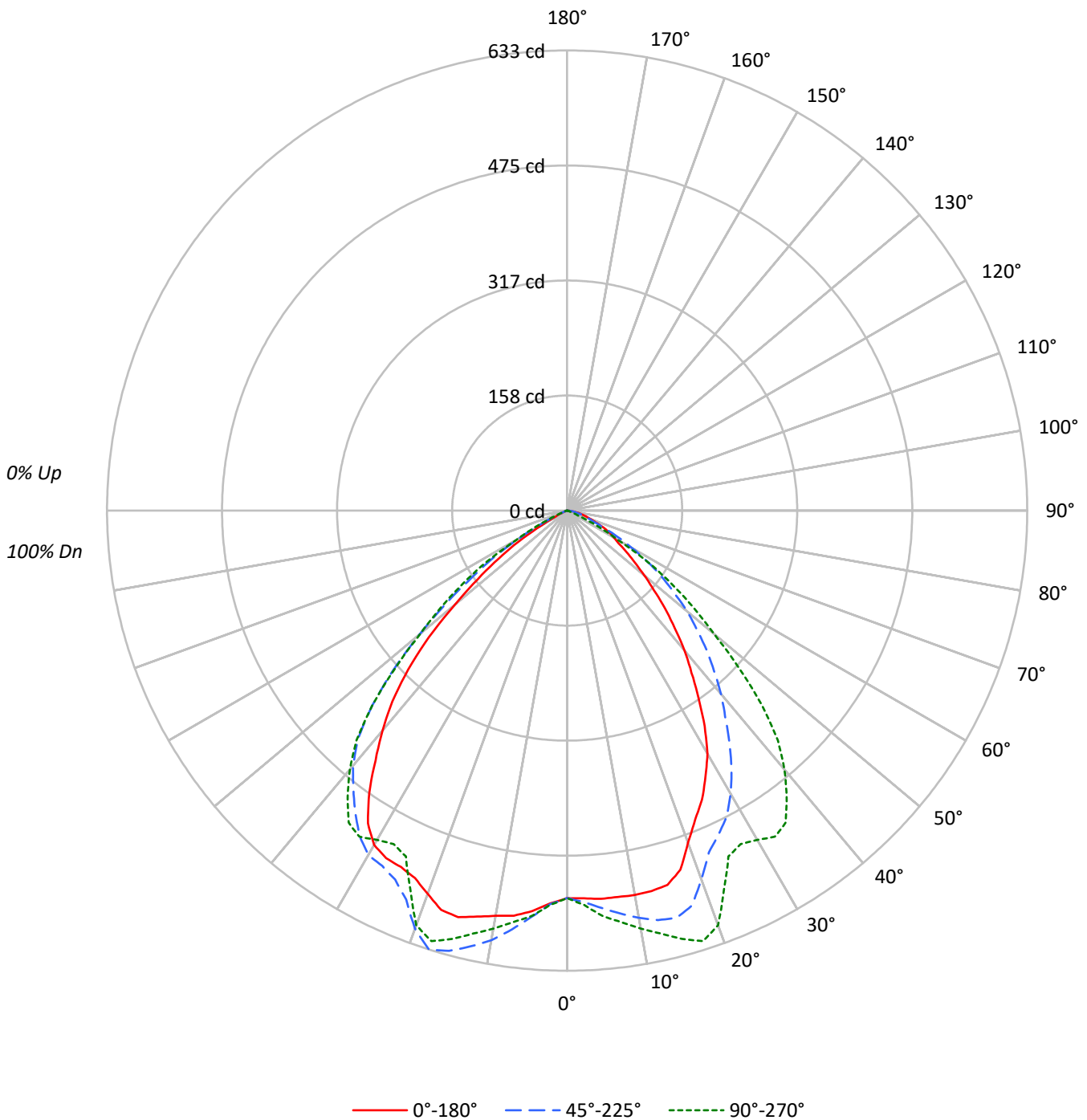
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1167.1 lumens
Efficiency: 64.8%
Efficacy: 39.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.47 / 1.34
Luminous Opening: Vertical Cylinder (Dia: 0.52' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.5
Input Voltage (V): 120.03
Input Current (A_{in}): 0.2458
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										
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	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66	65								
1	72	70	68	66	71	69	67	65	66	64	63	64	62	61	61	60	59	58								
2	67	63	60	57	66	62	59	56	60	57	55	58	56	54	56	54	53	51								
3	63	57	53	49	61	56	52	49	54	51	48	53	50	47	51	49	47	45								
4	58	52	47	43	57	51	46	43	49	46	43	48	45	42	47	44	41	40								
5	54	47	42	38	53	46	42	38	45	41	38	44	40	37	43	40	37	36								
6	50	43	38	34	49	42	37	34	41	37	34	40	36	33	39	36	33	32								
7	47	39	34	31	46	39	34	31	38	33	30	37	33	30	36	33	30	29								
8	44	36	31	28	43	36	31	28	35	31	27	34	30	27	33	30	27	26								
9	41	33	28	25	40	33	28	25	32	28	25	31	28	25	31	27	25	24								
10	39	31	26	23	38	30	26	23	30	26	23	29	25	23	29	25	23	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26928	26928	26928
5°	26614	27806	27458
10°	26411	28722	27837
15°	26164	29944	28423
20°	23995	29969	27698
25°	21968	26271	27072
30°	19733	26737	27146
35°	16589	27595	25014
40°	13736	25448	21617
45°	10909	21760	17741
50°	8400	16008	12295
55°	6529	11360	7508
60°	5253	5750	2839
65°	4314	1804	627
70°	3093	353	265
75°	2246	204	204
80°	1463	122	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°	53.5	4.6	3.0	0°	533	533	533	533	533	
10°-20°	166.3	14.2	9.2	5°	536	549	560	561	553	51
20°-30°	241.7	20.7	13.4	15°	533	580	610	627	579	148
30°-40°	280.7	24.1	15.6	25°	439	492	525	560	541	201
40°-50°	242.3	20.8	13.5	35°	315	389	524	508	475	197
50°-60°	134.8	11.5	7.5	45°	190	271	379	379	309	147
60°-70°	36.7	3.1	2.0	55°	100	159	174	158	115	91
70°-80°	9.3	0.8	0.5	65°	55	54	23	21	8	54
80°-90°	1.8	0.2	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°	461.5	39.5	25.6							
0°-40°	742.3	63.6	41.2							
0°-60°	1119.3	95.9	62.2							
0°-90°	1167.1	100.0	64.8							
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°	1167.1	100.0	64.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	533	533	533	533	533	533	533	533	533
2.5°	534	535	539	542	543	544	542	541	541
5°	536	541	549	555	560	562	561	557	553
7.5°	536	546	559	566	571	579	581	571	562
10°	537	551	569	575	584	596	600	582	566
12.5°	536	553	577	584	596	608	614	592	572
15°	533	552	580	596	610	624	627	602	579
17.5°	518	539	570	599	621	635	633	603	576
20°	486	510	540	574	607	623	612	586	561
22.5°	460	485	509	532	564	585	579	574	547
25°	439	458	492	512	525	552	560	565	541
27.5°	412	428	475	506	517	534	551	553	539
30°	386	393	450	502	523	533	547	536	531
32.5°	352	358	421	489	532	534	531	515	510
35°	315	325	389	467	524	528	508	488	475
37.5°	281	294	357	437	496	509	483	450	433
40°	251	267	329	411	465	485	458	411	395
42.5°	219	238	299	370	429	448	426	372	356
45°	190	210	271	325	379	399	379	330	309
47.5°	162	183	242	285	321	337	324	283	258
50°	138	158	215	246	263	278	265	228	202
52.5°	117	138	185	210	219	221	210	177	155
55°	100	117	159	175	174	176	158	132	115
57.5°	84	101	132	136	132	131	119	96	80
60°	74	87	103	95	81	83	74	52	40
62.5°	66	72	78	62	50	49	43	27	19
65°	55	56	54	35	23	23	21	14	8
67.5°	43	43	38	19	6	5	5	5	4
70°	35	35	31	15	4	3	3	3	3
72.5°	28	28	24	11	3	2	2	2	2
75°	22	22	18	7	2	2	2	2	2
77.5°	17	17	13	4	2	2	2	2	2
80°	12	12	10	3	1	1	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)