

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: P31184

Luminaire Tested: **PD6H142E-62HC_32TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31184
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62HC_32TTT
Description: HALO 6 INCH APERTURE RECESSED CFL OPEN DOWNLIGHT FIXTURE,
HORIZONTAL LAMP, SPECULAR CLEAR REFLECTOR, SOCKET SLOTS
COVERED WITH TAPE, FIXTURE SURROUNDED WITH CARDBOARD AND TOP
OPEN
Light Source: (1) SYLVANIA FOUR PIN BASE HEX TTT CFL LAMP
CF32DT/E/IN/835 32 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

Summary

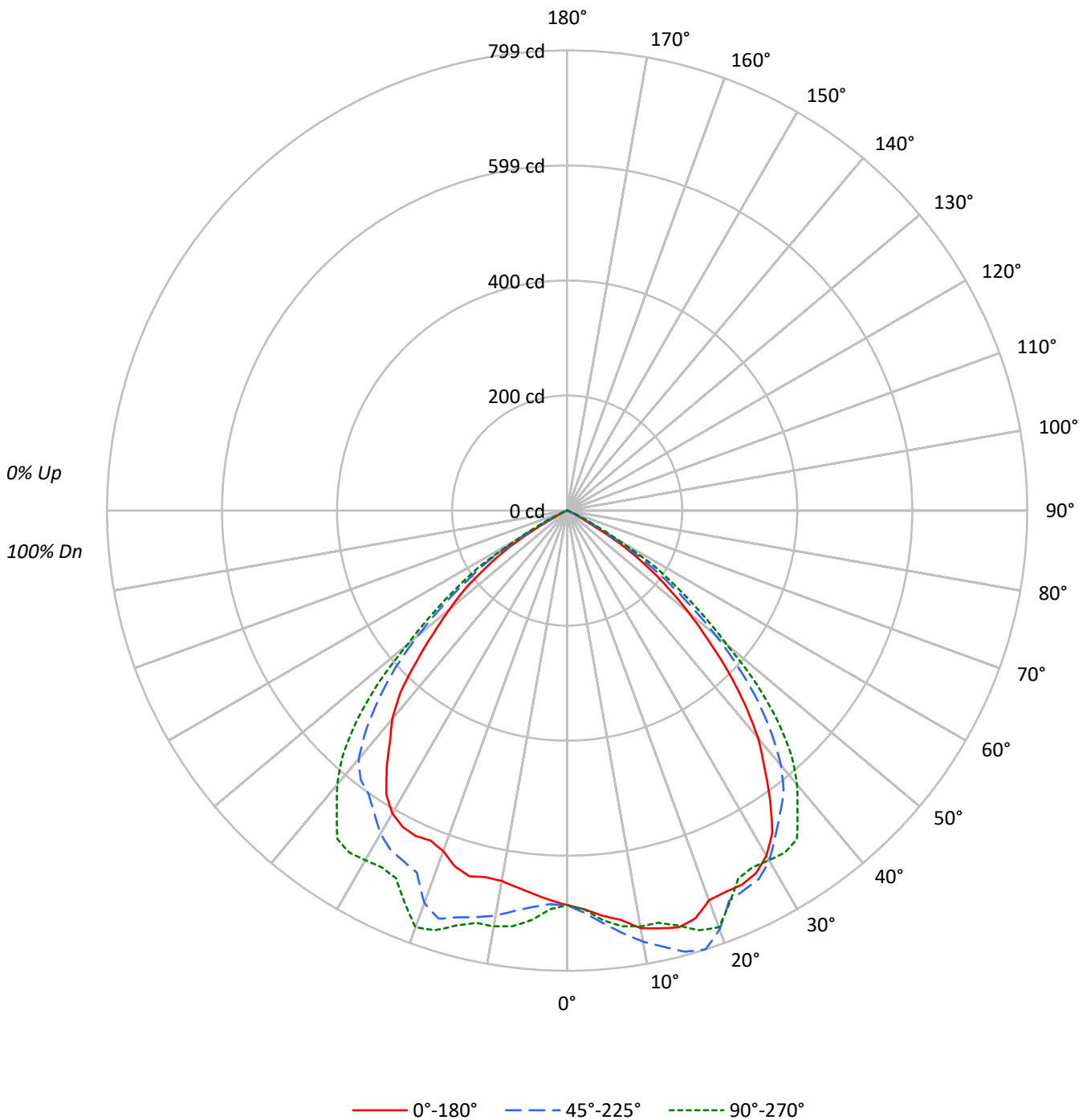
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1551.7 lumens
Efficiency: 64.7%
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.5 / 1.4
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 32.9
Input Voltage (V): 120.04
Input Current (A_{in}): 0.27458
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	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	65	63		64	62	61		61	60	60	58
2	67	63	60	57	66	62	59	57	60	58	55		58	56	54		56	54	53	52
3	63	57	53	50	61	56	52	49	55	51	49		53	50	48		51	49	47	46
4	58	52	47	44	57	51	47	43	50	46	43		48	45	42		47	44	42	41
5	54	47	42	39	53	46	42	38	45	41	38		44	40	38		43	40	37	36
6	50	43	38	34	49	42	38	34	41	37	34		40	36	34		39	36	33	32
7	47	39	34	31	46	39	34	31	38	34	30		37	33	30		36	33	30	29
8	44	36	31	28	43	36	31	28	35	30	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	38	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°	33264	33264	33264
5°	33708	34090	31894
10°	34820	34678	30894
15°	35383	35241	31037
20°	34222	36599	29897
25°	34555	33929	30025
30°	34086	34529	29899
35°	31219	35331	27716
40°	27233	32775	24911
45°	21937	28641	20442
50°	16160	21272	15631
55°	10786	14759	10723
60°	3775	6863	4186
65°	911	1746	759
70°	257	257	257
75°	99	99	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°	67.8	4.4	2.8	0°	685	685	685	685	685	
10°-20°	210.1	13.5	8.8	5°	706	719	714	691	668	68
20°-30°	323.3	20.8	13.5	15°	749	793	746	731	657	210
30°-40°	391.6	25.2	16.3	25°	717	727	704	672	623	329
40°-50°	347.5	22.4	14.5	35°	615	644	696	601	546	382
50°-60°	183.3	11.8	7.6	45°	396	469	517	462	369	303
60°-70°	26.3	1.7	1.1	55°	171	206	234	212	170	150
70°-80°	1.6	0.1	0.1	65°	12	18	23	22	10	18
80°-90°	0.2	0.0	0.0	75°	1	1	1	1	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°	601.3	38.7	25.1							
0°-40°	992.8	64.0	41.4							
0°-60°	1523.7	98.2	63.5							
0°-90°	1551.7	100.0	64.7							
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°	1551.7	100.0	64.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	685	685	685	685	685	685	685	685	685
2.5°	693	697	699	696	693	689	684	678	677
5°	706	713	719	720	714	705	691	676	668
7.5°	717	727	740	740	728	719	701	673	660
10°	736	748	760	751	733	731	714	673	653
12.5°	743	770	776	751	733	734	723	679	652
15°	749	786	793	761	746	746	731	690	657
17.5°	742	785	799	773	764	758	743	685	648
20°	720	773	774	770	770	763	725	670	629
22.5°	717	769	734	730	737	727	681	659	620
25°	717	757	727	705	704	699	672	639	623
27.5°	710	734	721	696	698	688	664	621	619
30°	692	701	702	694	701	684	648	597	607
32.5°	663	667	672	695	704	684	623	574	584
35°	615	629	644	680	696	669	601	546	546
37.5°	563	588	618	649	657	644	589	515	505
40°	516	536	578	614	621	609	563	478	472
42.5°	457	474	526	569	577	566	517	433	428
45°	396	417	469	504	517	504	462	387	369
47.5°	331	361	404	437	447	437	405	341	314
50°	275	299	337	361	362	366	339	291	266
52.5°	222	237	267	288	296	289	274	238	223
55°	171	182	206	223	234	228	212	186	170
57.5°	118	130	145	167	179	175	161	138	124
60°	55	62	80	97	100	102	89	71	61
62.5°	27	31	43	50	53	53	48	34	25
65°	12	13	18	21	23	24	22	16	10
67.5°	4	4	4	4	5	5	5	5	4
70°	3	3	3	3	3	3	3	3	3
72.5°	2	2	2	2	2	2	2	2	2
75°	1	1	1	1	1	1	1	2	2
77.5°	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1
82.5°	0	0	0	0	0	0	0	0	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)