

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: P31232

Luminaire Tested: **PD6H142E-62H1GC_32TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31232
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62H1GC_32TTT
Description: HALO 6-INCH APERTURE LENSED DOWNLIGHT, HORIZONTAL LAMP.
PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM.
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

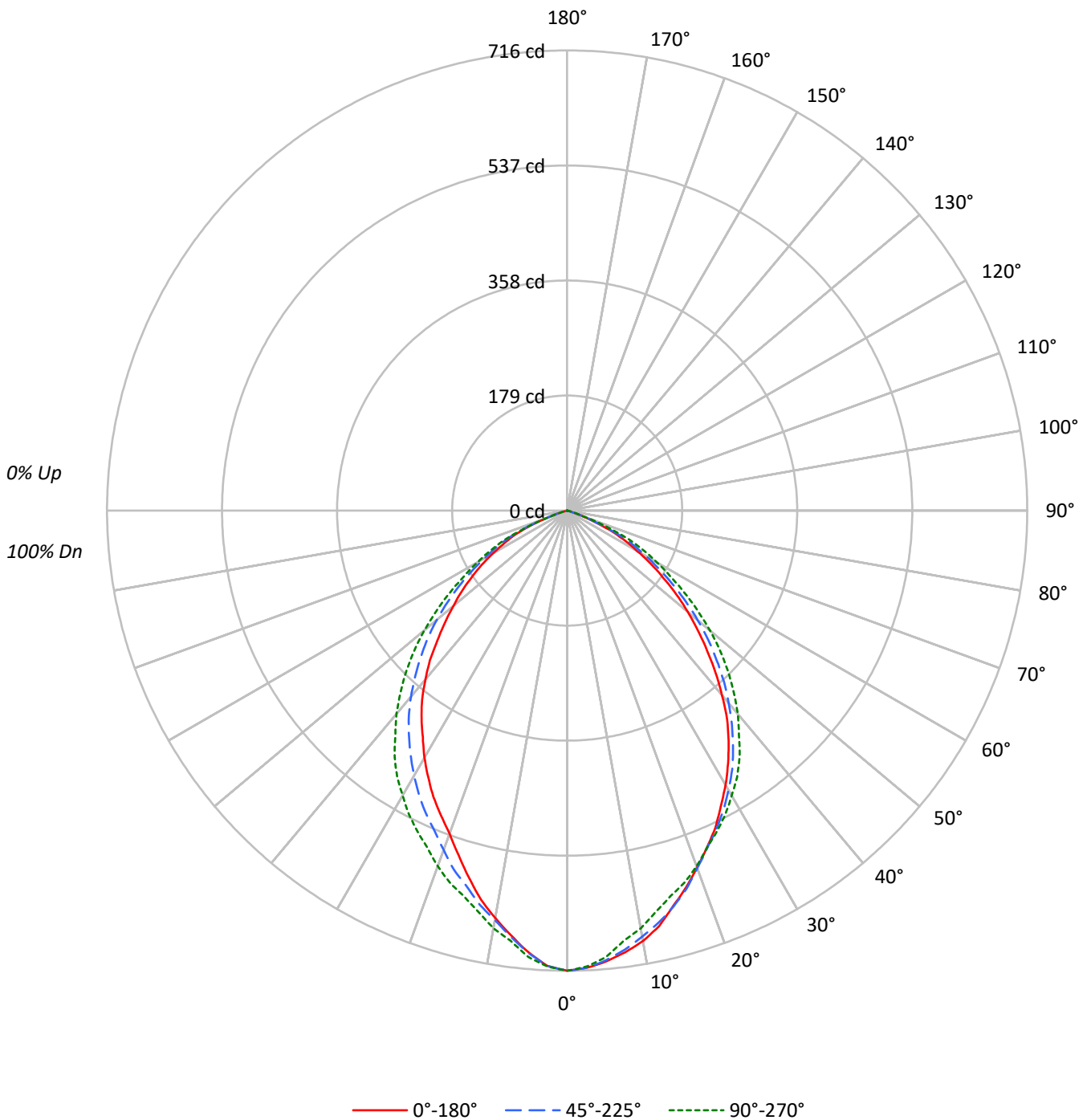
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1290.7 lumens
Efficiency: 53.8%
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.08 / 1.17
Luminous Opening: Vertical Cylinder (Dia: 0.52' x H: 0.1')
CIE Type: Direct

Input Watts (W): 34.6
Input Voltage (V): 120.02
Input Current (Ain): 0.28833
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	64	64	64	64	63	63	63	63	60	60	60		57	57	57		55	55	55	54
1	60	58	56	55	58	57	55	54	54	53	52		52	51	50		51	50	49	48
2	55	52	49	46	54	51	48	46	49	47	45		47	45	44		46	44	43	42
3	51	47	43	40	50	46	42	40	44	41	39		43	40	38		41	39	38	37
4	47	42	38	35	46	41	37	34	40	37	34		39	36	34		38	35	33	32
5	44	38	34	31	43	37	33	30	36	33	30		35	32	30		34	32	29	28
6	41	34	30	27	40	34	30	27	33	29	27		32	29	27		31	29	26	25
7	38	32	27	24	37	31	27	24	30	27	24		30	26	24		29	26	24	23
8	36	29	25	22	35	29	25	22	28	24	22		27	24	22		27	24	21	21
9	33	27	23	20	33	26	23	20	26	22	20		25	22	20		25	22	20	19
10	31	25	21	18	31	25	21	18	24	21	18		24	20	18		23	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36174	36174	36174
5°	34956	34608	34261
10°	33444	32460	31673
15°	31270	30484	29012
20°	29179	29080	26414
25°	27272	27573	24620
30°	25203	26175	22698
35°	23066	24646	20801
40°	20522	22602	18771
45°	17683	20325	16363
50°	14912	17651	14060
55°	11948	14559	11883
60°	8944	11500	9441
65°	6039	8314	7059
70°	2121	3093	2828
75°	204	306	408
80°	122	122	122
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	65.3	5.1	2.7	0°	716	716	716	716	716	
10°-20°	174.5	13.5	7.3	5°	704	702	697	691	690	66
20°-30°	245.8	19.0	10.2	15°	637	638	621	605	591	179
30°-40°	274.1	21.2	11.4	25°	545	548	551	520	492	250
40°-50°	250.7	19.4	10.4	35°	438	450	468	429	395	273
50°-60°	181.9	14.1	7.6	45°	308	329	354	322	285	238
60°-70°	89.5	6.9	3.7	55°	183	201	223	206	182	164
70°-80°	8.8	0.7	0.4	65°	77	88	106	100	90	74
80°-90°	0.2	0.0	0.0	75°	2	2	3	4	4	6
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°	485.5	37.6	20.2							
0°-40°	759.6	58.9	31.7							
0°-60°	1192.2	92.4	49.7							
0°-90°	1290.7	100.0	53.8							
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°	1290.7	100.0	53.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	716	716	716	716	716	716	716	716	716
2.5°	712	713	712	711	710	708	709	709	709
5°	704	704	702	700	697	693	691	690	690
7.5°	693	692	689	683	675	671	669	667	667
10°	680	678	673	667	660	652	647	645	644
12.5°	662	662	657	647	639	632	628	623	620
15°	637	639	638	629	621	614	605	597	591
17.5°	615	617	617	612	607	597	586	571	562
20°	591	592	592	592	589	579	562	544	535
22.5°	568	568	569	569	568	558	539	519	513
25°	545	544	548	552	551	542	520	497	492
27.5°	518	521	526	532	533	523	499	475	468
30°	493	495	502	510	512	501	476	452	444
32.5°	466	467	478	486	492	478	453	426	418
35°	438	437	450	459	468	453	429	400	395
37.5°	409	408	421	434	439	429	405	375	371
40°	375	377	391	404	413	402	378	348	343
42.5°	342	347	361	375	384	375	350	323	316
45°	308	315	329	346	354	346	322	298	285
47.5°	276	283	298	314	323	315	294	270	258
50°	245	252	265	281	290	285	265	244	231
52.5°	214	221	233	247	256	251	235	217	207
55°	183	191	201	213	223	218	206	192	182
57.5°	155	160	170	181	190	186	177	166	158
60°	126	133	142	151	162	157	148	140	133
62.5°	102	107	116	125	134	131	124	114	110
65°	77	81	88	98	106	105	100	93	90
67.5°	46	47	54	62	68	70	69	64	64
70°	24	24	27	31	35	36	36	34	32
72.5°	9	9	11	13	14	16	16	15	16
75°	2	2	2	3	3	3	4	4	4
77.5°	1	1	1	1	1	1	2	2	1
80°	1	1	1	1	1	1	1	1	1
82.5°	0	0	0	0	0	0	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)