

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: P31231

Luminaire Tested: **PD6H142E-62H1GC_26TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31231
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H142E-62H1GC_26TTT
Description: HALO 6-INCH APERTURE LENSED DOWNLIGHT, HORIZONTAL LAMP.
PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM.
Light Source: (1) SYLVANIA FOUR PIN BASE HEX TTT CFL LAMP
CF26DT/E/IN/835 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
Sylvania QTP2x26CF/UNV DM

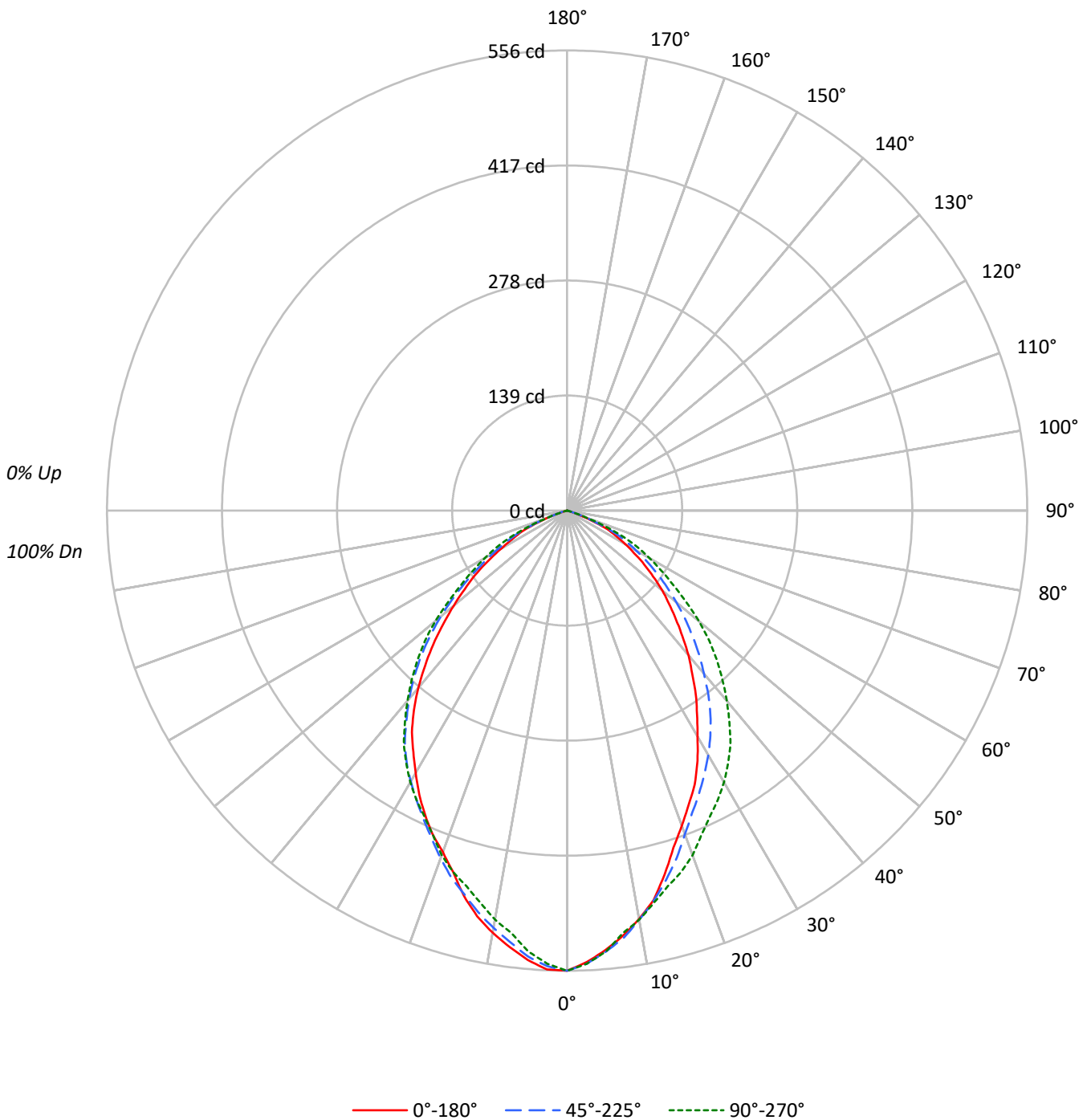
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 937.1 lumens
Efficiency: 52.1%
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 1.03 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 28.9
Input Voltage (V): 120.03
Input Current (A_{in}): 0.24084
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

TEST NUMBER: P31231
CATALOG NUMBER: PD6H142E-62H1GC_26TTT

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	0	
RCR																						
0	62	62	62	62	61	61	61	61	58	58	58	55	55	55	53	53	53	52				
1	58	56	54	53	57	55	53	52	53	52	50	51	50	49	49	48	47	46				
2	54	50	48	45	53	49	47	45	48	45	44	46	44	43	45	43	42	41				
3	50	45	42	39	49	44	41	39	43	40	38	42	39	37	40	38	37	36				
4	46	41	37	34	45	40	37	34	39	36	33	38	35	33	37	34	32	31				
5	43	37	33	30	42	36	33	30	35	32	29	34	31	29	34	31	29	28				
6	40	34	30	27	39	33	29	27	32	29	26	32	28	26	31	28	26	25				
7	37	31	27	24	36	30	27	24	30	26	24	29	26	24	28	26	23	22				
8	35	28	24	22	34	28	24	22	27	24	21	27	24	21	26	23	21	20				
9	33	26	22	20	32	26	22	20	25	22	20	25	22	19	24	21	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°	27000	27000	27000
5°	25448	25543	26021
10°	23702	23750	24507
15°	21494	22203	22770
20°	19250	21056	20866
25°	17591	19663	19567
30°	15516	18668	18028
35°	13757	17462	16599
40°	12033	15833	14778
45°	10304	14182	12686
50°	8814	12223	10518
55°	7190	9839	8578
60°	5559	7893	6314
65°	4098	5692	4630
70°	1455	2140	1798
75°	198	198	297
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°	50.3	5.4	2.8	0°	556	556	556	556	556	
10°-20°	132.1	14.1	7.3	5°	533	535	535	541	545	50
20°-30°	182.0	19.4	10.1	15°	455	462	470	480	482	127
30°-40°	199.4	21.3	11.1	25°	365	377	408	411	406	167
40°-50°	178.5	19.0	9.9	35°	271	302	344	342	327	169
50°-60°	126.2	13.5	7.0	45°	186	214	256	250	229	144
60°-70°	62.0	6.6	3.4	55°	114	133	156	148	136	102
70°-80°	6.4	0.7	0.4	65°	54	63	75	67	61	50
80°-90°	0.1	0.0	0.0	75°	2	2	2	3	3	5
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°	364.4	38.9	20.2							
0°-40°	563.9	60.2	31.3							
0°-60°	868.6	92.7	48.3							
0°-90°	937.1	100.0	52.1							
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°	937.1	100.0	52.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	556	556	556	556	556	556	556	556	556
2.5°	546	548	548	548	548	549	551	554	555
5°	533	534	535	536	535	537	541	544	545
7.5°	518	519	521	519	515	519	526	530	532
10°	501	502	502	502	502	505	512	516	518
12.5°	482	482	483	483	485	490	497	501	502
15°	455	458	462	466	470	476	480	482	482
17.5°	427	431	440	450	458	463	465	462	458
20°	405	406	416	431	443	448	447	442	439
22.5°	384	385	395	411	424	430	428	424	424
25°	365	365	377	394	408	415	411	405	406
27.5°	341	343	359	379	394	400	394	388	387
30°	315	322	341	363	379	385	378	370	366
32.5°	292	298	322	344	362	368	361	347	346
35°	271	275	302	325	344	349	342	325	327
37.5°	248	255	280	304	322	327	319	303	304
40°	228	235	257	281	300	304	297	281	280
42.5°	206	217	236	260	278	283	274	259	254
45°	186	196	214	238	256	260	250	236	229
47.5°	167	176	193	215	233	235	225	211	203
50°	150	158	172	190	208	208	199	187	179
52.5°	131	139	152	168	181	181	173	164	156
55°	114	121	133	147	156	155	148	141	136
57.5°	96	103	114	126	135	132	124	117	113
60°	81	86	96	108	115	110	103	96	92
62.5°	67	72	80	91	96	92	84	78	75
65°	54	57	63	70	75	73	67	62	61
67.5°	33	34	38	44	49	48	46	42	42
70°	17	18	20	23	25	25	24	22	21
72.5°	7	7	8	10	11	11	11	10	10
75°	2	2	2	2	2	2	3	3	3
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	0
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)